Kentucky Report

From Two Systems to One World-Class System of Technical Centers







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Introduction and Readers' Guide

Kentucky's Approach to College and Career Readiness

The Kentucky Department of Education (KDE) seeks to position its Career and Technical Education (CTE) system as among the best in the nation. Following KDE's mission "to prepare all Kentucky students for next-generation learning, work and citizenship by engaging schools, districts, families and communities through excellent leadership, service and support," Kentucky legislators took a number of bold steps to ensure that all students receive a quality education to meet future workforce demands: Senate Bill 1, Senate Bill 38 and House Bill 207.

Senate Bill 1, passed in 2009, launched the state's Unbridled Learning initiative. SB1 seeks to align K-12 and postsecondary expectations and increase the number of high school graduates ready for college. SB1 addresses what students should learn and the accountability system used to measure college readiness.

Senate Bill 38, sponsored by Senator Jack Westwood and passed in 2012, aims to provide a career pathway process for secondary education. Through a more rigorous academic focus on CTE, the bill provides for a career-based program of study to make students' high school years more relevant to their futures as working adults. SB38 requires KDE to issue core content standards for CTE, assess student progress and develop new courses relevant to college and career readiness.

House Bill 207, signed by Governor Beshear in 2013, unites the state's two CTE systems under the guidance of KDE with the goal of creating a more relevant and efficient system to educate and prepare students for the workplace.

Part of a larger effort to prepare students for a wider range of career and postsecondary options, HB207 seeks to:

 join a solid academic core with quality high school career-technical (CT) studies;

- make career pathway programs more accessible earlier in students' educational trajectories; and
- make CT programs both more intellectually demanding and better aligned with postsecondary and employer requirements.

College Readiness. Being college-ready means that a student has obtained the level of academic preparation needed to succeed in credit-bearing courses in college without the need for remediation. Kentucky's college readiness benchmarks are an ACT score of 18 for English, 20 for reading, 19 for introductory college mathematics, 22 for college algebra and 27 for calculus. Students can also qualify as college-ready by meeting benchmarks on ACT's Compass college placement test or KYOTE (Kentucky Online Testing) exam.

Career Readiness. Career readiness has multiple components. Academic career readiness is measured by Kentucky's college readiness benchmarks or by benchmarks on the Armed Services Vocational Aptitude Battery (ASVAB) exam or the WorkKeys National Career Ready Certificate. Students must score at the fiftieth or higher percentile on the ASVAB or obtain a Silver or higher certificate on the WorkKeys. Technical career readiness is measured with one of the state's 31 Kentucky Occupational Skills Standards Assessments (KOSSA) or an approved industry certification. To be considered careerready, a student must have completed a sequence of at least three preparatory courses in a career field or pathway, receive a related industry certification or KOSSA and meet the benchmarks on the ASVAB or WorkKeys.

Delivery of CTE in Kentucky. CTE in Kentucky is delivered both in comprehensive high schools and in shared-time technical centers. The state currently has 95 state and local technical centers.

Study of Kentucky's Technical Centers. In

September 2013, KDE requested that the Southern Regional Education Board (SREB) conduct an external review of its system of 95 technical centers in order to assess the impact of CTE on student performance, graduation and preparation for college and a career, as well as to examine the strength of the relationships between high school career preparation programs and the regional workforce needs of Kentucky's businesses and industries. The intent of this review is to determine how well state and local technical centers are performing and whether all centers are on a trajectory to adhere to KDE's mission for CTE and to meet the goals of SB1, SB38 and HB207.

Readers' Guide to the Report

Scope of Work

SREB's study of Kentucky's 95 state and local technical centers included (1) administering teacher and student surveys, (2) conducting desk audits of current data, (3) conducting on-site institutional reviews at six centers, (4) facilitating two focus group interviews, and (5) conducting interviews with a number of state personnel.

The sections that follow briefly describe the research questions that guided the study, the data sources on which it drew and the outline and contents of the report.

Research Questions

Ten research questions guided the study and are answered in 10 sections of the report:

Section I: Alignment of CTE Offerings and Workforce Needs Statewide and by Economic Regions: How aligned are current career pathway programs of study with projected high-skill, highwage, high-demand job needs in the next decade by major state economic sectors, regionally and statewide?

- Section II: College- and Career-Readiness Standards: How well have students at Kentucky's 95 state and local technical centers succeeded in meeting new state benchmarks in career readiness, college readiness or both?
- Section III: Academic Support Provided by Home High Schools to Technical Center Students: Have the academic courses taken by CT students at their home high schools been effective in preparing them for success in meeting college- and career-ready academic standards?
- Section IV: Articulation, Dual Credit and Alignment of Technical Center Programs with Community Colleges: Do all programs have articulation agreements that provide postsecondary credit opportunities and a proven track record of success, and are secondary career programs aligned with current offerings at the state's community and technical colleges?
- Section V: Implementation of Individualized Career Learning Plans: Are students being placed in career pathway programs of study that align with their individual learning plans and regional and state economic sector needs?
- Section VI: Rigorous Assignments: Is there a major difference across state and local technical centers in students' perceptions of the rigor of assignments they receive from their CT teachers?
- Section VII: Professional Development: Do teachers believe that professional development opportunities allow them to stay current in their career content and to effectively integrate essential academic knowledge and skills into student assignments that meet the emerging trends of the workforce?
- Section VIII: Continuous Improvement: Are there perceived differences among the faculty at state and local technical centers on whether their centers foster a culture of continuous improvement?

- Section IX: Advisory Committees: Do all technical centers have advisory committees that participate in program reviews to ensure alignment with industry standards, expectations and trends?
- Section X: Facilities: Are technical center facilities safe, state-of-the-art and wellmaintained so all students can master the full range of skills and competencies required?

Data Sources

Faculty and Student Surveys. In October 2013, SREB asked faculty and students in all 95 state and local centers to complete SREB's Technology Centers That Work (TCTW) Faculty and Student Surveys. All 53 state centers completed the survey, and 27 of the 42 local centers participated. Across state and local centers, 811 teachers completed the faculty survey and 5,387 seniors completed the student survey.

The faculty survey gave technical center teachers an opportunity to provide feedback on their perceptions of the quality of learning opportunities, leadership for instructional practices, student engagement and collaboration within their centers. Teachers also had an opportunity to indicate the professional development they had received and the kinds of professional development they would like to receive in the future. The student survey asked students about the courses they have taken in high school and their perceptions of their high school experiences, including their academic studies, assignments in CT and academic classrooms, work-based learning, expectations, literacy and mathematics instruction, guidance and extra help.

Desk Audit Data. First, SREB reviewed regional data from Kentucky's 10 workforce regions. A series of reports prepared in 2011 for the Kentucky Workforce Investment Board (KWIB) by Maher & Maher and EMSI (Economic Modeling Specialists Intl.) provided data on the targeted industry sectors for the state as a whole and for each of the state's economic regions.

KDE provided a broad range of data on its CT programs at the state and local technical centers.

These data, generally covering the 2011-12 and 2012-13 academic years, included, but was not limited to, such items as:

- numbers of students completing a program of study including three or more CT courses
- numbers of students enrolled in programs of study at each center
- career pathways offered by each center
- academic curriculum data, including dual credits earned
- college readiness data, including numbers of students meeting ACT benchmarks
- career readiness data, including numbers of students meeting ASVAB or WorkKeys benchmarks, passing a KOSSA and receiving industry certifications
- technical center faculty and leadership data, as available
- alignments with postsecondary programs and numbers of dual credits earned

Institutional Reviews. SREB conducted institutional reviews in six technical centers across Kentucky. SREB and KDE used college- and career-readiness data to rank centers from highest performing to lowest performing, then chose one state and one local center from each third of the ranking, ensuring that a different workforce region was represented for each center visited. The review team consisted of a former state CTE director, a current Kentucky technical center director and a KDE representative.

Each technical center created a profile of artifacts that consisted of Program Assessment boxes that included the curriculum, unit and lesson plans, classroom assignments, samples of student work and assessments. Each technical center also provided the team with a copy of its TEDS (Technical Education Database System) Report, School Report Card, Perkins Plan and Advisory Council agendas and minutes. The centers also conducted a self-assessment using SREB's *Evaluating the Quality of Career-Technical Programs* rubric.

During the one-day on-site visit, the review team conducted formal interviews with technical center leadership, teachers, students and key central office leaders. The team conducted walkthrough observations and examined center-provided artifacts. The team's analysis was based upon examination of the documents provided by the center, interviews and on-site experiences and observations.

During the six institutional review visits, 53 students, 37 teachers, 10 directors or high school principals, 11 central office staff members, 12 business and industry partners and seven guidance and advisement staff members participated in face-to-face interviews. The team visited 60 classrooms and analyzed dozens of artifacts that contained curriculum maps, lesson plans, projects and assessments. All collected data were considered in developing this report.

Focus Groups. SREB conducted two focus groups on November 12 and 13, 2013. One group was the Commissioner's Superintendent Advisory Committee, which consisted of 11 superintendents representing a cross-section of superintendents from the eight educational cooperatives. The other group included eight members of the CT Advisory Committee, which was comprised of business and industry representing a cross-section of Commonwealth stakeholders. Participants answered a series of questions regarding the current state of technical education within their district, region and state, and their vision for CTE across all workforce regions in Kentucky.

Individual Interviews. One-on-one interviews were held with Terry Holliday, Commissioner of Education; Dale Winkler, State CTE Director; and Shirley Akers, Deputy Executive Director of the Kentucky Center for Education and Workforce Statistics.

Outline and Contents of the Report

Executive Summary. This section of the report offers SREB's four over-arching recommendations related to the state's need to (1) commission an in-depth study that will identify funding priorities and formulate recommendations to create an improved and more equitable funding system for all technical centers, (2) based on a set of best practices priorities, establish an accountability system that not only measures outcomes, but also measures whether all of the components are in place that will maximize opportunities for all students, (3) forge a unified system of world-class technical centers, and (4) establish stronger, more formal ties between the state's secondary and postsecondary education institutions and private sector business and industry partners by creating a robust system of state and regional advisory committees.

Sections I-X. These sections of the report present a fuller description of SREB's findings related to the 10 research questions that drove the study. Each section provides the research question addressed, outlines key findings and makes targeted recommendations intended to help the state achieve a world-class system of technical education offering optional career pathway programs of study leading to success in postsecondary study and the workplace.

Appendices. As a supplement to the main report, Appendices A and B include additional detailed information on state and regional workforce demands, available technical center and community college programs and numbers of program graduates. Appendices C and D align state and regional job opportunities and program graduates by industry sector with a series of detailed recommendations.

Executive Summary

From Two Systems to One World-Class System of Technical Centers

World-class technical centers can help launch high school students on their chosen career pathways toward continued on-the-job learning and postsecondary study leading to industry certifications, associate's degrees or higher, and high-wage, high-skill, high-demand jobs. High-quality career pathway programs of study not only help students acquire valuable credentials, degrees and good-paying jobs, they have the potential to reverse the downward spiral of reduced economic opportunity experienced by young adults, especially young men, during the past two decades.

Achieving a system of world-class technical centers and high-quality career pathway programs of study will require center directors and home high school principals — in partnership with their school districts, KDE, the Kentucky Community and Technical College System (KCTCS) and business and industry partners — to share a vision of what it means to be college and career ready and what it takes to prepare more students for postsecondary education, advanced training and success in the workplace.

The vision for Kentucky's technical centers as presented in this report is not an inferior alternative to the more traditional college-preparatory high school experience. The career pathway programs of study offered by Kentucky's technical centers can represent an equally rigorous option, one that takes a different approach to learning that prepares students for both further study and the workplace. However, technical centers' success is grounded in the quality of the academic and technical preparation and educational and career counseling that technical center students receive at their home high schools and at the technical centers. To achieve a world-class system of technical centers, closer working partnerships in the blending of academic and technical studies are needed between the centers and their home high schools.

As a result of its study of Kentucky's 95 state and local technical centers, SREB offers four over-arching recommendations to the state:

- Commission an in-depth study that will identify funding priorities and formulate recommendations to create an equitable and adequate funding system for all technical centers.
- 2. Establish an accountability system that not only measures outcomes, but also measures the implementation of best practices that will maximize opportunities for students.
- Create a single system of world-class technical centers.
- 4. Establish stronger, more formal ties between the state's secondary and postsecondary educational institutions and business and industry partners by creating a robust system of state, regional and local advisory committees.

1. One System with Equitable and Adequate Funding for All Technical Centers

The scope of SREB's study of Kentucky's 95 technical centers did not include the depth needed to: (1) address current funding policies for the two sets of state and local technical centers, (2) determine the resources needed to work toward a unified world-class system of technical centers, and (3) propose an equitable and adequate funding system design to address the unique needs of the types of programs offered.

SREB strongly urges the Kentucky General Assembly to approve such a study during its 2014 legislative session to identify funding priorities and formulate recommendations to create an adequate and more equitable funding system for all technical centers.

Select a person or organization to conduct this study that has demonstrated expertise in conducting studies of funding systems for CT systems. An adequate and equitable funding system is essential for the state to move forward in fully unifying its two systems into a world-class network. All technical centers need access to the resources needed to develop new programs and redesign existing programs to better align with state and regional economic priorities. Funds are needed to provide academically and technically rigorous instruction, authentic projectbased classroom assignments and assessments, industry-standard technology and software, highly qualified teachers and leaders and industrystandard facilities.

SREB identified some reported inadequacies and inequities in how funds are currently used to pay for CT programs at the state and local centers, including, but not limited to:

- Assessment and accountability. CT students who do not meet readiness benchmarks on the ACT are required to take the WorkKeys. However, state centers, but not local centers, receive state funds to pay for the administration of the WorkKeys. There are some local centers that have chosen not to administer this test due to its cost.
- Career pathway programs of study. Some local centers appear better able to provide more programs and sustain those programs despite budget cuts. State centers have fared the worst in the face of state budget cuts. Programs leading to jobs in high-demand areas including some for which new classroom and labs have been built have languished due to the lack of funds for salaries for teachers. Other programs linked to local industries face elimination without the support of grant funds. Additional state dollars are needed to develop more career pathway programs of study (see Signature Features of Career Pathway Programs of Study in Section I of this report).

- Facilities, equipment and supplies. Some centers lack classrooms or have limited space in classrooms and shop areas. Many technical centers also lack the facilities, technology and software needed to provide instruction to meet emerging industry-driven standards. Some programs have limited student enrollments because supply budgets have been cut more than 40 percent in the last five years and no equipment purchases with state funds have been made in the last eight years.
- Industry certification examinations. State and local centers vary in which industry examinations they offer as well who pays for them the state, local districts or students themselves. The state cannot have academic and technical career-readiness goals that will be taken seriously by districts and schools until the state pays for these exams. At present, the state lacks a consistent policy regarding how industry certification examinations are to be funded. A system of incentive funding is needed to encourage districts to take on the added cost of getting more students academically and technically career-ready.
- Salaries and staffing. Overall, centers lack the funds needed to hire teachers for new and existing programs, and state center teachers have not received a pay raise for over five years. Further, a preliminary review of KDE teacher salary data for state and local technical centers showed that, on average, local technical center teachers earn more than state technical center teachers. A more complete salary analysis is needed to create an equitable and adequate salary system for highly qualified CT teachers.
- Staff development. Citing budget cuts, teachers at state centers said that other than required technical update workshops, they received little development on instructional strategies, integrating academic content into the curriculum and better preparing students for industry certification exams.

2. One System of Accountability and Support for All Technical Centers

The state's pioneering work to include CT students in its accountability system represents an excellent step toward creating one system of technical centers. Continued efforts to strengthen the career and technical aspect of the state accountability system can further contribute to the development of a more unified system of technical centers. Kentucky is in the enviable position of having 95 technical centers to serve students across the Commonwealth; however, as currently constituted, these centers share neither a common vision nor a set of proven practices to achieve excellence and meet the state's ambitious college- and career-readiness benchmarks.

Establishing a broad framework of researchbased best practices for both technical centers and home high schools is essential if all centers are to implement a 21st-century technical center curriculum and instructional program that will help students meet readiness goals (see Best Practices Priorities for Kentucky's Technical Centers, Section II). It is essential that the state also establish a set of indicators to measure the quality of students' experiences in both academic and careertechnical classes. Home high schools and technical centers can foster the conditions needed for success by working together to implement eight Signature Features of Career Pathway Programs of Study (see Section I) that prepare students academically and technically and with the habits of behavior and mind needed to succeed in career pathway programs of study. At present, the home high schools and technical centers offer only fragmented components of these signature features.

SREB recommends that the state:

 Set as a target that 90 percent of all students completing a coherent CT sequence of at least three courses will meet academic and technical career-readiness standards. Provide incentives to districts and schools making significant gains in providing the increased instructional time needed for students to earn a valued industry certification.

Rethink how industry certification exams are approved and expand options regarding what constitutes an approved industry certification exam or alternatives to industry certification exams. Approve only industry certification exams or bundles of certification exams (e.g., two or more in a related career pathway) that: (1) lead to employment opportunities that exist within the state, as verified by the Kentucky Labor Cabinet; (2) give students employment preference in a given job, as verified by at least two or more potential employers; (3) provide long-term benefits both to the state economy and to the individual student; and (4) meet the approval of the Kentucky Workforce Investment Board (KWIB).

Further, the state should consider additional means through which students can meet technical readiness standards. Many of the highwage, high-skill, high-demand jobs designated as high-priority career fields by the KWIB will require work experience and more hours of instructional time than students can currently receive during high school. If there is a rush to approve low-level industry certification exams that do not lead to advanced opportunities, this may reduce the number of individuals prepared for high-wage, high-demand jobs.

There are several options that the state might consider:

- Increasing instructional time at the technical center.
- Increasing opportunities to engage in work-based learning.
- Awarding increased accountability points for students who continue in their career pathways to further on-the-job training, postsecondary studies and the acquisition of state-approved industry certifications or degrees.

 Recognizing students as having met technical readiness standards if they pass an end-of-course exam, as approved by KDE and KCTCS, in at least two Advanced Career courses, for which they would receive transcripted postsecondary credits.

Such alternatives to industry certification exams would demonstrate that students have acquired the necessary academic and technical skills to pursue further study in the same career area. At present, not enough students from the technical centers are pursuing postsecondary studies in the same career field.

- Incentivize technical centers and individual career pathway programs demonstrating significant improvement in the percentage of students meeting academic and technical career-readiness standards. Consider providing incentive funds to any technical center or career pathway program making significant improvement toward meeting the state's goal of 90 percent of CT sequence completers meeting academic and technical career-readiness standards. These funds could be used to upgrade equipment, supplies, curricula and professional development.
- Require any technical center in which less than 50 percent of students meet academic and technical career-readiness standards to work collaboratively with an external group, the district and KDE to develop a comprehensive improvement plan that addresses what the feeder high schools can do, and each program can do, to increase the percentage of students meeting readiness benchmarks. Such plans would ensure that curricula, instruction, student assignments and classroom assessments are fully aligned with relevant academic, technical and 21st-century skills. The improvement plan would also include efforts the feeder high school would need to make to improve student academic readiness in collaboration with the technical center.

- Establish a framework of proven practices that, when implemented with fidelity, can improve student readiness for college and careers. These practices, as described in Best Practices Priorities for Kentucky's Technical Centers (see Section II), will inform districts, technical centers and home high schools as they create and implement improvement plans.
- of critical employers from the region who have an interest in high-quality CT programs. As a basis for receiving state support, each technical center would have a general advisory committee that will play a key role in planning, development and implementation of technical center programs, curricula, instruction and assessment. See Section IX on the roles of advisory committees.
- Be willing to change center leadership and discontinue programs that fail to make improvements in the number of students meeting academic and technical careerreadiness benchmarks after a reasonable period of time.
- Assume the cost of assessments of academic and technical readiness for all technical centers.

3. One System of World-Class Technical Centers

Kentucky's goal is to create a system of worldclass technical high schools that provide students with optional career pathway programs of study leading to a good job, advanced training and an associate's degree or higher. With the passage of HB207, the state took a major step toward unifying its two systems of state and local technical centers by creating a leadership structure within KDE to support a single system. However, across all centers, not enough students are meeting readiness standards, and much more needs to be done if the state is to reach its goal of having many more students meet both college-ready and careerready academic and technical readiness goals. KDE has a process through which a local school district could submit a request to the state to assume authority for the management and control of a state technical center. SREB recommends:

- conditions for local boards of education that own the facilities that house a state-run center to work with the executive director of the Office of Career and Technical Education to develop a comprehensive plan to assume authority for the management and control of that center. This would involve taking all necessary actions needed to ensure the orderly transfer of personnel, equipment and resources to the local board of education.
 - Address how the center would be supported in implementing a set of research-based Best Practices Priorities for Kentucky's Technical Centers (see Section II). These best practices include strengthening potential technical center students' academic readiness in grades nine and 10, embedding academics in CT studies, offering a unified system of counseling for careers between home high schools and centers, implementing the eight Signature Features of Career Pathway Programs of Study (see Section I), providing for the selection and development of high-quality faculty and ensuring that programming reflects the existing and future needs of business and industry within the area.
 - Establish a process and criteria for students to attend the technical center.

 The technical center director and/or counselor at the home high school should confirm that enrolling students have made thoughtful decisions that align their career goals with the programs in which they are seeking to enroll. Section V of this report presents recommendations for connecting Individualized Learning Plans (ILPs) with students' interests and abilities and potential careers and opportunities at the technical center and beyond.

- committee at the technical center. See
 Section IX of this report and the fourth
 section of this executive summary for more on
 these advisory committees.
- □ Offer funding support to modernize offerings in line with regional and statewide employment opportunities, upgrade instructional equipment and software, redesign curriculum and instruction to reflect the Signature Features of Career Pathway Programs of Study (see Section I) and design more rigorous assignments (see Section VI).
- state technical centers serving multiple districts and high schools into full-time technical high schools offering grades nine-12 or 11-12. Such full-time technical high schools would better connect academic and CT studies and provide more time for academic and technical instruction, time that is currently being taken up with transportation to and from the center. Other states, including Delaware, Massachusetts, Ohio and Pennsylvania, offer models of full-time technical high schools that serve multiple districts, configured as either grades nine-12 or 11-12.
- 4. One System of Technical Centers in Partnership with Postsecondary and Industry

A strong partnership with postsecondary education and business and industry is essential to creating a world-class system of technical centers. A connected system of technical centers must address state and regional economic and workforce needs through industry sector priorities. At present, there are major gaps in the state's offerings related to these priorities. As Section I of this report describes, the state's 95 technical centers still offer too many traditional programs and too few programs targeting new and emerging sector priorities.

Although we expect Kentucky's technical centers to become world-class, we cannot expect them to produce graduates with the depth of knowledge and skills needed to fill jobs requiring more than a high school diploma but less than a bachelor's degree. As such, the career pathway programs offered at Kentucky's technical centers must become better connected to continuing studies at the two-year college and on-thejob training provided by employers. Local district and center leaders and teachers must view their programs as launching students on career pathway journeys that continue with on-the-job training and postsecondary studies leading to advanced certifications, associate's degrees or higher. Technical center leaders and faculty play a critical role in helping students aspire to further training and education, and the active, frequent presence of community college personnel at the center may result in students identifying the community college as their preferred choice.

SREB recommends that the state:

- Establish a state-level task force for each of the state's five targeted industry sectors that is comprised of representatives from economic regions experiencing major gaps in the number of qualified applicants for jobs in these sectors. Charge each task force with:
 - □ Overseeing the redesign of existing programs and developing new programs that meet modern workplace requirements and incorporate the eight *Signature Features of Career Pathway Programs of Study* that lead to further education and training and well-paying jobs (see Section I).
 - Assessing project assignments, soft skills, completed project quality and students' learning of academic, technical and technology skills.
 - Promoting academically and technically rigorous optional career pathway programs of study featuring dual credit and work-based learning opportunities in aligned, coherent

- and integrated sequences that offer students different exit and re-entry points on the pathway to further education, training and careers.
- Advising, supporting and encouraging students engaged in career pathway programs of study through job shadowing, summer internship experiences and other work-based learning opportunities.
- Support a pilot effort to create a regional advisory committee in an economic region in which major gaps exist between industry sector employment demands and qualified applicants; a majority of its members would be representatives of this industry sector. Other members would include local superintendents, local community college representatives and representatives from participating districts. The goal of this regional pilot effort is to better align high-quality CT program offerings with employer and workforce needs and to ensure that programs lead to further on-the-job training and postsecondary study.
- Ask each technical center to establish a robust general technical center advisory committee charged with transforming the center into one offering rigorous instruction in career fields relevant to students, the region and the state. Advisory committee members should have a personal stake in improving the center; two-thirds should be local and regional business and industry representatives who can employ graduates from one or more of the center's programs after high school graduation or offer them additional postsecondary education and training. With an industry representative serving as chair, other members of the committee would include:
 - □ A representative from a local two- or four-year college who is responsible for developing career pathway programs of study with technical centers;

- A high school principal, guidance counselor and academic teacher (English, math or science) from one or more of the center's sending home high schools;
- □ A parent with a son or daughter enrolled at the center;
- □ A district representative; and
- Others as needed, including CT teachers who are to attend as observers.
- Charge advisory committees with helping centers that fail to meet state academic and technical career-readiness benchmarks, or that fail to make significant annual progress in meeting such benchmarks, to develop and oversee the implementation of a three-year strategic improvement plan, in consultation with center leadership and an external provider. See Section IX for a fuller set of recommendations on advisory committees.

- Charge general technical center advisory committees with addressing other major issues, including:
 - Having more students meet state accountability goals for college and career readiness.
 - Providing work-based learning experiences that will allow students to learn contextually in real-world workplace settings.
 - □ Redesigning or repurposing programs that are no longer effective.
 - ☐ Examining assignments given to students and the quality of student work to determine if they match workplace and postsecondary readiness standards.
 - Supporting center leaders and teachers in updating their skills to reflect changing workplace requirements and the need for postsecondary study.

Section I: Alignment of CTE Offerings and Workforce Needs Statewide and by Economic Regions

Research Question: How aligned are current career pathway programs of study with projected high-skill, high-wage, high-demand job needs in the next decade by major state economic sectors, regionally and statewide?

Kentucky's Commissioner of Education, Terry Holliday, has stated that, "to make the Kentucky system world-class, we must become more responsive to the regional job markets. One size does not fit all regions, and offerings from center to center are too much alike and lack customization to meet demand in the regional area."

In conjunction with private consultants and leaders from a number of state education and economic and workforce development agencies, the Kentucky Workforce Investment Board (KWIB) has identified five industries and 10 strategic business and industry sectors and subsectors that will be targeted for further investment over the coming years. These targeted industries and sectors were identified after a review of "the current business/industry base in the Commonwealth, current targeted sectors of various state, regional and local economic development organizations in Kentucky, recent project activity and other emerging sectors that have shown growth at the national, state and, possibly, local level." The five targeted industry sectors are:

- 1. Automobile and Aircraft Manufacturing:
 - Focuses on industries engaged in the development of automobile and aircraft assembly, prototype development, conversion and overhauling/rebuilding. Industries that manufacture aircraft and automobile components are also categorized in this sector.
- **2. Transportation, Distribution and Logistics:** Focuses on the movement and storage of goods and support activities related to different modes of transportation.

Specific modes of transportation include water, rail, road and air.

- 3. Business Services and Research and Development (R&D): Consists of industries that specialize in performing professional, and scientific and technical services for businesses and individuals, including research and development.
- **4. Health Care/Social Assistance:** This sector involves industries that provide health care and social assistance to individuals that are delivered by health or social service practitioners.
- 5. Energy Creation/Transmission: Focuses on sectors engaged in the creation of energy (e.g., coal, gas, wind, etc.), transmission of energy (power lines, pipes, etc.) and support the creation and distribution of energy.³

SREB drew upon KDE data as well as reports prepared for KWIB by Maher & Maher and EMSI (Economic Modeling Specialists Intl.) in order to determine whether the career pathway programs of study currently available at the state's 95 technical centers are aligned with high-skill, high-wage, high-demand jobs in these five targeted industry sectors. 4

In the findings that follow, Business Services and R&D have been broken out into five clusters — Business and Administration (Administrative Support), Finance (Financial Services), IT, Marketing, and Science, Technology, Engineering and Mathematics (STEM).

Findings

Overall, SREB found alignment gaps between existing CT programs offered at the state's 95 state and local technical centers and workforce needs both at the state level (see Table 1) and by economic region

(see Table 2). For example, there are either no programs or an inadequate number of programs focusing on broad-based manufacturing, transportation, logistics and distribution, and renewable energy. In the case of the manufacturing sector, historically the largest contributor to the state's economy, current CT program offerings generally focus on single-skill occupations (e.g., welding,

machine tool technology, electricity, computer-aided drafting) and fail to meet current manufacturing industry needs. In focus groups, manufacturers and employers from other sectors strongly expressed their need for multi-skilled workers who possess applied literacy and math skills, can work with a range of technology, problem-solve and work in teams.

			Tech Center		Comm.	
Economic Sector Workforce Needs	Cluster CT Programs Offered	Annual Job Openings	Graduates	Gap ¹ (+/-)	College Graduates	Total Gap (+/-)
Automobile and Aircraft Manufacturing	Manufacturing	455	2,039	+	319	+
Transportation, Distribution and Logistics	Transportation, Distribution and Logistics	1,401	903	_	578	+
Business Services and Research and Development (R&D)	Business and Administration	1,075	931	-	1,073	+
	Finance	350	139	_		_
	Information Technology	751	461	-	328	+
	Marketing	355	171	_		_
	Science, Technology, Engineering and Mathematics	1,433	150	-	222	-
Health Care/ Social Assistance	Health Science	4,182	2,120	_	6,814	+
Energy Creation/ Transmission	Agriculture and Natural Resources	42	19	_	28	+
	Science, Technology, Engineering and Mathematics	4	15	+	56	+

^{1 &}quot;+" signifies that there are more graduates than there are annual job openings in this field.

Source: Kentucky's Targeted Industry Sectors, May 2011, EMSI and Maher & Maher. Complete Data – 3rd Quarter 2010, KDE.

Note: The state classified STEM as part of two industry sectors for a group of jobs in each sector that requires STEM skills and preparation.

[&]quot;-" signifies that there are fewer graduates than there are annual job openings in this field.

Differences Between State and Regional

Projections. In comparing the data presented in Tables 1 and 2, please note that there are discrepancies in the number of projected job openings due to a number of factors.

First, there are differences in state and regional economic sector projections. For example, three of the state sectors project fewer annual job openings than do some regional economic sector counterparts: Automobile and Aircraft Manufacturing, the Finance cluster of Business Services and R&D and Energy Creation/Transmission. The *Kentucky's Targeted Industry Sectors* report limits manufacturing projections to automobile and aircraft manufacturing, whereas regional manufacturing projections are based on the full range of manufacturing industries located in a given region. As a consequence, there are more job openings projected for all regions (3,615, see Table 2) than job openings projected for the whole state (455, see Table 1).

In the case of the Finance cluster of Business Services and R&D, the state specifically looks at jobs in accounting, whereas the regions look at jobs in accounting, banking and insurance. The Energy Creation/Transmission sector shows by far the biggest discrepancy, with 46 annual openings at the state level, but 803 annual openings at the regional level. This sector is much more narrowly focused at the state level and includes jobs in power generation, power transmission and pipeline oversight. At the regional level, this sector is titled "Energy and Natural Resources" or simply "Energy," and as a result includes a much broader range of jobs across the entire industry. Jobs in crude petroleum and natural gas extraction account for the vast majority of the projected 803 annual openings. These jobs are not included at the state level.

Second, there may be discrepancies between state and regional job projections due to overlaps in the collection of data at the regional level that may have caused some jobs to be counted twice.

Third, some job data came from outside the state. Some of the jobs included in the Northern Kentucky region were actually located in Cincinnati and southwest Ohio. State projections do not include any data from outside the state.

Fourth, some regions did not share the same economic priorities as the state. As such, the number of annual job openings in those regions may be lower than those projected statewide for a given economic sector. For example, in some economic regions, STEM was not a priority: Thus there were only 310 regional projected job openings in STEM compared to 1,433 for the state. As Table 1 shows, this appears to be the case for some other sectors and clusters, including Transportation, Distribution and Logistics, IT, Health Care/Social Assistance and others.

Finally, other differences may result from the highwage, high-demand job requirement. Some regions have jobs with generally lower wages than the rest of the state, whereas other regions have jobs with higher wages than the rest of the state.

Gaps Between Projected Job Openings and Technical Center Graduates. As Table 2 shows, SREB analyzed program offerings at Kentucky's 95 technical centers and found gaps between state-level projected annual job offerings and 2013 technical center graduates in the following sectors and clusters:

- Transportation, Distribution and Logistics
- Business Services and R&D: Business
 Administration, Finance, IT, Marketing and STEM
- Health Care/Social Assistance: Health Science
- Energy Creation/Transmission

When 2013 graduates from the state's 16 community colleges and 95 technical centers are added together, the gap between state-level annual job openings and graduates shrinks to only one sector: Business Services and R&D — Finance, Marketing and STEM.

As Table 2 shows, analyses of regional industry sector data reveal gaps between projected job openings and 2013 graduates of the state's technical centers and community colleges in all sectors or clusters except Transportation, Distribution and Logistics, Business and Administration, IT and Health Care/Social Assistance. Large gaps between employment opportunities and graduates exist in Manufacturing, Finance, Marketing and Energy Creation/Transmission.

Overall, current technical center offerings are not well aligned with current job opportunities, particularly in such areas as manufacturing, transportation, distribution and logistics and STEM. Because funding is not available to add new 21st-century programs in these areas, Kentucky's technical centers will need to repurpose or redesign some of the existing programs to meet industry needs.

In the sections that follow, findings and recommendations are presented for each of the state's five targeted industry sectors and related clusters. Tables 3 and 4 summarize state and regional recommendations by sector; Appendices C and D offer additional recommendations along with projected job opportunities and program graduates for each industry sector or subsector.

Table 2: Summary of All Regional Economic Sectors' Annual Job Openings Compared to Program Graduates of Technical Centers and Community Colleges

Economic Sector Workforce Needs	Cluster CT Programs Offered	Annual Job Openings – All Regions	Tech Center Grads – by Region^	Tech Center Gap (+/-)	College Grads	Comm. College Gap (+/-)	Total Gap (+/-)
Automobile and Aircraft Manufacturing	Manufacturing	3,615	2,039	-	319	_	-
Transportation, Distribution and Logistics	Transportation, Distribution and Logistics	1,179	903	_	578	_	+
Business Services and R&D	Business and Administration	210	509	+	1,073	+	+
	Finance	2,634	109	_	0	_	_
	Information Technology	337	341	+	328	_	+
	Marketing	141	67	_	0	_	_
	STEM	310	77	_	222	_	_
Health Care/ Social Assistance	Health Science	302	616	+	6,814	+	+
	Agriculture and Natural Resources Manufacturing/ STEM^^	803	29	-	84	-	-
TOTALS		9,531	4,690	-	9,418	-	-

[&]quot;+" signifies that there are more graduates than there are annual job openings in this field.

Source: Kentucky's Targeted Industry Sectors, May 2011, EMSI and Maher & Maher. Complete Data - 3rd Quarter 2010, KDE.

Note: The state classified STEM as part of two industry sectors for a group of jobs in each sector that requires STEM skills and preparation.

[&]quot;-" signifies that there are fewer graduates than there are annual job openings in this field.

^{*} At the regional level, the full range of manufacturing is considered.

^{**} At the regional level, this includes both Finance and Finance and Insurance.

[^] At the state level, the focus is primarily on power generation, transmission and pipeline oversight.

^{^^} State only includes Agriculture and Natural Resources and STEM, whereas Manufacturing is included regionally. Therefore, these clusters have been combined for the regional examination.

1. Manufacturing

Based on KWIB data, statewide, 455 high-wage, high-skilled workers will be needed annually in the automotive and aircraft manufacturing industry. This projection may be too conservative. During a focus group, a manufacturer from Northern Kentucky indicated there were 680 openings in advanced manufacturing in his region. Overall, given that Kentucky's economic regions have prioritized other manufacturing sectors in addition to those prioritized by the state, annual projected job openings may be greatly underestimated.

As Table 2 shows, three separate economic regions project greater numbers of annual openings in manufacturing than those projected in the KWIB report. Further, the expansion and renovation of the Corvette manufacturing facility in Bowling Green and the expansion of the Ford truck plant in Louisville both suggest that statewide job openings in the automotive manufacturing sector may also be too low.

Across regions, a total of 3,615 job openings are projected annually in Kentucky's manufacturing sector. Yet most of Kentucky's 2013 technical center and community college graduates came out of single-skill occupational programs; some 717 came out of welding programs alone. During focus groups, employers drew significant attention to this problem and questioned how well secondary and community college programs were aligned with workforce needs.

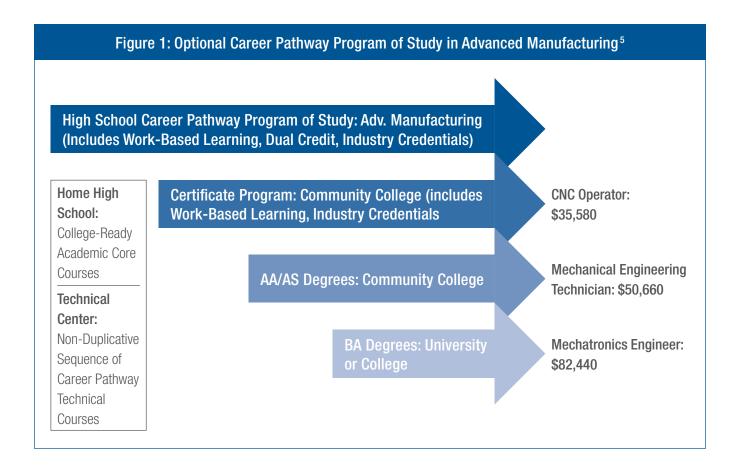
These employers believed the manufacturing programs currently being offered in the technical centers are not designed to provide the technical, academic, problem-solving and soft skills needed in advanced manufacturing. Some technical center programs may need to be redesigned or repurposed to offer an entirely different type of learning experience to better prepare graduates.

At present, the state lacks a formal structure by which to effectively create an advanced manufacturing career pathway program of study that vertically aligns the programs at Kentucky's technical centers and community colleges and leads to continued education and training, work-based learning and employment opportunities in the manufacturing industry.

Recommendations:

- Establish a state Manufacturing task force that will study existing technical center manufacturing programs, the quality of student assignments and work in those programs, and the adequacy of their facilities and technology. The task force will make recommendations for redesigning and repurposing existing programs or adopting new ones.
- Prioritize the implementation of Advanced Career Creating the Future: Design and Production of Tomorrow's Products. This manufacturing curriculum is currently being developed by SREB, the state of Kentucky and Kentucky manufacturers, and may be applicable in various economic regions of the state.
- Create an optional career pathway program of study using the Advanced Career manufacturing curriculum that provides a non-duplicative sequence of technical and college-ready academic courses offered across the technical center, the home high school and the local community college. This curriculum leads to further education (including industry certifications, associate's degrees or higher), work-based learning at industry sites and good jobs in the industry. A joint educational-industry panel could develop and pilot this pathway as a prototype for others (see Figure 1).

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations for the Manufacturing sector.



2. Transportation, Distribution and Logistics

The Transportation, Distribution and Logistics sector is expected to offer 1,401 annual job openings statewide. However, neither the technical centers nor the state's community colleges are offering programs in logistics, warehousing and storage, and driving.

The state does appear to have sufficient training capacity to prepare mechanics and technicians for automotive, auto body and diesel repair. However, SREB identified a need to develop a career pathway system that will better connect technical center and community college programs with work-based learning and result in more students acquiring a comprehensive set of industry certifications in these fields.

In 2013, state and local technical centers produced 903 graduates in the Transportation, Distribution and Logistics cluster, with 695 in automotive technology. SREB was unable to obtain data on what percentage of these students continued their education and training at the community college level. However, in 2013, community colleges graduated 578 students in these

same three career fields, with the largest numbers in automotive technology (311) and diesel mechanics/technician (170). Community colleges had only a few graduates in aircraft maintenance.

Recommendations:

- Establish a state Transportation, Distribution and Logistics task force to address improving existing programs and developing new programs as needed in this sector.
- Determine and track annually the number of program graduates who acquire related industry certifications, including the number who acquired a single certificate versus a more complete set of certifications.
- Develop an optional career pathway program of study in this sector that unites technical centers, community colleges and industry in preparing graduates to acquire a comprehensive set of transportation-related industry credentials. Make work-based learning a critical feature of these programs at both the secondary and postsecondary levels.

- Determine whether additional career pathway programs of study are needed to address employment opportunities in distribution and logistics.
- Consider adopting the Advanced Career:
 Global Logistics and Entrepreneurship
 curriculum being developed by SREB and the
 state of New Jersey in a region of Kentucky
 with a high need for such a program.

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations for the Transportation, Distribution and Logistics sector.

3. Business Services and Research and Development (R&D)

Business and Administration: Administrative Support

Program offerings in this sector varied across state and local centers. The state centers are primarily preparing students for administrative support, whereas the local centers offer a broader range of programs, including business management, multimedia technology and entrepreneurship. As Table 1 shows, statewide, some 1,075 new jobs are projected to open annually in the area of Business and Administration. To fill these jobs, Kentucky's state technical centers produced 361 graduates and local centers produced 570 graduates, leaving a shortfall of 204. Community colleges graduated 711 students in business administration and general management and 362 in executive assistant programs, for a total of 1,073. SREB could not obtain information on the number of students who began a business services pathway in high school, continued their studies at the community college and earned either an associate's degree or some other type of postsecondary credential.

Note that 3,500 annual job openings are projected for four regional economic sectors — Green River, Bluegrass, Greater Louisville and Northern Kentucky.

A member of the state advisory committee reported that employers in this sector are looking for individuals with technology and software knowledge who can manage projects, anticipate problems and provide solutions.

Recommendations:

 Establish a state Business Services task force that will develop optional career pathway programs of study in this area.

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations for Business Services and R&D.

Finance: Financial Services

Statewide, 350 annual job openings are projected in the area of financial services. **However, three economic regions of the state have projected openings for 2,341 workers in financial services.** State technical centers offer three programs fitting this sector — accounting, finance and finance technology — and produced 22 graduates in these areas in 2013. Local technical centers offer two programs — accounting and finance — and produced 117 graduates in 2013. At least according to the data received by SREB, none of the state's community colleges offered a program in the financial services area.

Financial services and accounting both represent strong potential career pathways spanning high school and two- and four-year colleges. However, formal, well-designed programs in this sector may already exist in the comprehensive high schools, at least as beginning pathways. Too often, however, the business curriculum does not address some industry needs. It was not possible within the scope of this study to examine program offerings at the comprehensive high schools. Such a study needs to occur, given the large number of projected job openings and the scarce number of programs that exist to meet this demand.

Recommendations:

Convene, under the Business Services task force, a panel on the Banking, Finance and Insurance industry. Charge this panel with inventorying current career pathway offerings in this area at the comprehensive high schools and determining their strengths and weaknesses.

- Study the need to establish new or improve existing career pathway programs of study in the Financial Services sector.
- Investigate whether to adopt the National Academy Foundation's Academy of Finance⁶ in strategic regions of the state, either in comprehensive high schools or in technical centers, and develop companion two-year programs at the community colleges.

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations for Financial Services.

Information Technology (IT)

The IT skills gap has received much recent media attention after the federal government began issuing foreign visas to attract workers to fill the gap. In Kentucky, 751 annual job openings are projected in IT. But neither the state nor the local technical centers are providing students with access to computer programming and computer system design career pathways that put them on track for high-paying jobs in the modern IT field. Further investigation is needed to determine whether these 751 jobs accurately reflect the demand for workers with skills in computer programming, computer design and other computer system-related services.

State technical centers provide three primary IT-related programs — network administration, web development and IT — and graduated a total of 185 students in 2013 from these three programs. None of the state centers offered computer programming or computer system design programs. Local technical centers offered four IT-related programs — computer programming, information processing, information support and services, and network administration — and graduated a total of 276 students across the four. In 2013, the state and local technical centers had 461 graduates in the information technology area. All 16 community colleges offer computer and information science programs. In 2013, a total of 328 students graduated from these programs with a certificate or a degree.

Overall, the state is not producing an adequate number of people pursuing advanced study in the highly specialized, high-demand, high-paying field of computer programming and system design.

Recommendations:

- examine existing offerings at the technical centers and community colleges and identify whether their programs meet emerging industry needs. Consider expanding career pathway programs that prepare students in computer programming and computer systems design. As part of a pathway leading to college degrees and high-paying jobs in the IT field, such programs should include Advanced Placement (AP) Computer Science in high school, dual credit or dual enrollment at local community colleges and work-based learning opportunities with industry.
- Consider implementing the Advanced
 Career: Health Informatics curriculum being developed by SREB and the state of Ohio.
- Consider adopting the Advanced Career: Informatics curriculum currently being developed by SREB and the state of Kentucky. This curriculum launches students into careers in information analysis, for which a growing demand exists across the country.

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations for IT.

Marketing

Statewide, there are 355 annual projected job openings in Marketing. Kentucky's state and local technical centers graduated 170 students in this area, leaving a potential job shortfall of 185. SREB received no data from the community colleges that would indicate whether they are producing graduates in this area

Both the local and state technical centers offer a course called Marketing Technology (54 graduates in 2013), and the local centers offer a course in Business Marketing and Marketing Management (42 graduates in 2013). The state's comprehensive high schools may be offering marketing courses, but this was beyond the scope of SREB's study.

Recommendations:

 Investigate and determine whether there is a need to create a Telemarketing career pathway program of study — 74 annual job openings are projected in this area.

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations for Marketing.

Science, Technology, Engineering and Mathematics (STEM)

At the state level, career fields requiring STEM skills include consulting and services in physical distribution and logistics services, environmental services, engineering, veterinarian, and other professional scientific and technical services. Statewide, there are 1,433 annual job openings in STEM fields. This may be an underestimate, as national labor market projections currently estimate that some 20 percent of all jobs will require STEM knowledge and skills, with half of those jobs available to people with less than a four-year degree.

At present, the state technical centers do not offer any STEM programs. The primary STEM pathway offered at the local technical centers is the Project Lead the Way (PLTW) pre-engineering curriculum. The local centers' PLTW programs graduated 124 students in 2013. The local centers graduated an additional 26 students in other STEM-like pathways, for a combined total of 150. This leaves a potential job shortfall of 1,283.

The state's community colleges offer three programs in STEM — engineering technology, environmental engineering technology and surveying technology. Most of the community colleges' 222 graduates were in engineering technology. Added to the total number of graduates from the technical centers, this leaves a potential job shortfall of 1,061.

Please note that it was beyond the scope of this study to investigate the number of comprehensive high schools offering STEM programs.

Recommendations:

- Establish a state STEM task force that will examine current STEM-related offerings not only at the technical centers and community colleges, but also in the comprehensive high schools. This task force could help develop academically and technically rigorous optional career pathway programs of study leading to advanced education and training for STEM careers.
- Consider adopting the Advanced Career: Innovations in Science and Technology curriculum being developed by SREB and the state of Arkansas.

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations for STEM.

4. Health Care/Social Assistance: Health Science

Statewide, a projected 4,182 job openings will be available in the Health Care/Social Assistance sector. In 2013, the state and local technical centers produced a combined total of 2,120 graduates in this area, leaving a potential job shortfall of 2,062. The only program offered in this area at the state technical centers is health science (1,134 graduates in 2013). Local technical centers offer four active programs — allied health (431 graduates), health science (124 graduates), PLTW biomedical science (43 graduates) and pre-nursing (388 graduates). At both the state and local centers, limited numbers of career pathways lead to specialized health and medical service programs at the community college and beyond.

The state's community colleges produced 6,814 graduates in 2013, with the four largest fields being: practical nursing (3,832 graduates), registered nursing (916 graduates), administrative/executive assistant (450 graduates) and technical/clinical medical laboratory technician (399 graduates).

Recommendations:

- Festablish a state Health Science task force that would examine current program offerings at the technical centers and community colleges and offer recommendations to identify potential new pathways, strengthen and align existing pathways, and determine whether curriculum and instruction in existing pathways are preparing students for careers in this rapidly changing, technologically advanced industry.
- Consider adopting the Advanced Career: Health Informatics curriculum, developed by SREB and the state of Ohio, in Kentucky's largest urban areas.
- Expand the the implementation of the PLTW biomedical science curriculum which prepares students for a range of health science programs at both the community college level and beyond.
- Expand the number of students enrolled in high school pre-nursing career pathway programs of study. These programs should provide a strong foundation in science and math, offer opportunities to earn dual credit, and emphasize the problem-solving and critical thinking skills needed for success in postsecondary practical nursing and registered nursing programs.
- Develop a pathway to prepare students for the clinical medical laboratory technician program offered by local community colleges.

Appendices C and D link annual projected job openings and program graduates with state and regional recommendations related to the Health Care/Social Assistance sector.

5. Energy Creation/Transmission

Statewide, 46 annual job openings are projected in the Energy Creation/Transmission sector. However, four regions have substantially higher projected annual openings based on KWIB reports by sector within the state — Barren River, EKCEP (Eastern Kentucky Concentrated Employment Program), Green River and Western Kentucky (see Appendix B).

At present, state technical centers do not offer any programs related to the Energy Creation/Transmission sector. Local technical centers offer environmental science and natural resource systems (19 graduates in 2013) and electronic technology (15 graduates). The state's community colleges offer three programs in this area — mining technology technicians and petroleum technology technicians (28 graduates across the two programs) and energy management and system technology technicians (56 graduates).

At present, Kentucky's technical centers do not offer a career pathway aimed at preparing students for careers in energy conservation and renewable energy.

Recommendations:

- Establish a state Energy task force to examine current technical center program offerings and consider what a career pathway program of study spanning secondary and postsecondary studies in this sector might look like.
- Consider adopting the Advanced Career:
 Clean Energy Technology curriculum
 developed by SREB and the state of South
 Carolina at one or more technical centers.
- Consider adopting the Advanced Career:
 Energy and Power curriculum developed by
 SREB and the state of West Virginia at one or more technical centers.

Appendices C and D link annual projected job openings and program graduates with the Energy Creation/Transmission sector.

Recommendations For All Targeted Industry Sectors

- Establish a task force for each of the state's five targeted industry sectors comprised of representatives from economic regions experiencing major gaps in the number of qualified applicants for jobs in these sectors. Charge each task force with:
 - Overseeing the redesign of existing programs and developing new programs meeting modern industry requirements that incorporate the eight signature features of high-quality career pathway programs of study leading to further education and training and well-paying jobs.
 - Assessing project assignments, soft skills, completed project quality and students' learning of academic, technical and technology skills.
 - Promoting academically and technically rigorous optional career pathway programs of study featuring dual credit and work-based learning opportunities in aligned, coherent and integrated sequences that offer students different exit and re-entry points on the pathway to further education and training and careers.
 - Advising, supporting and encouraging students engaged in career pathway programs of study.
- SREB recommends that the state adapt the following eight signature features of highquality career pathway programs of study and set as a goal that all technical center programs will have these features.

Signature Features of Career Pathway Programs of Study

1. Students are able to access high-quality career pathway programs of study that offer technical courses aligned with a college-ready academic core.

Programs of study include a sequence of at least four non-duplicative, rigorous CT courses that lead to multiple postsecondary options — including employment, advanced training in the career field or an associate's or bachelor's degree. Programs of study offer students opportunities to earn industry certifications and transcripted dual credits. Programs of study also provide students with opportunities to participate in: (1) work-based learning that is developmental, progressive and increasingly intense, and (2) career-technical student organizations (CTSOs) that enhance students' career development, academic engagement and acquisition of 21st-century skills.

- 2. Technical center and high school leaders work to create an organization and scheduling structure that enable CT teachers to work frequently with other CT teachers, academic teachers, and counselors to plan integrated academic and technical learning activities aimed at enhancing students' college and career readiness.
- 3. CT course sequences are derived from industry, reflect future employment needs and are designed around authentic projects spanning several days or weeks that require the application of academic, technical, technological and cognitive skills to complete.

Authentic projects require students to work in teams, engage in independent study and receive some direct instruction. Projects must be sufficiently complex so that students will need to struggle to acquire the deeper learning and skills required of professionals in the field.

4. Students are given robust project-based assignments that require them to (1) apply their understanding of high school-level math, literacy and science, (2) demonstrate good habits of mind and behavior, and (3) exhibit problem-solving skills to complete.

Students who experience higher-level authentic assignments show higher achievement than students who experience lower-level assignments. Robust assignments allow students to reflect on what they are learning and see connections between their academic and technical studies and potential future study and careers. Section VI of this report offers a discussion of assignments and a set of criteria for judging whether or not these assignments are robust.

5. Students are assessed using several strategies — rubrics, exams, written deliverables, teacher observations and external assessments — to determine whether they have mastered academic, technical, technological and cognitive concepts and skills. Students receive feedback and opportunities to relearn and master concepts and skills through authentic assignments.

The intent of classroom assessment is to advance student learning. End-of-project assignment grades are based on several factors, including: (1) students' demonstration of soft skills, team work and timeliness in completing work, (2) the quality of the products delivered — both the tangible product and the written deliverables as judged by a rubric, and (3) a written exam that determines if students have mastered the technical materials they should read and comprehend to complete the project, the math that was involved in completing the project, the science concepts embedded in the project, and the technical concepts, technology and software used. Comprehensive endof-course exams for each course are given that assess students' mastery of all technical and academic knowledge and skills used to complete assignments.

6. Career pathway programs of study are supported with a counseling for careers approach to educational and career exploration that begins no later than the middle grades and continues throughout high school.

Counseling for careers provides students and their parents with the information and experiences they need to help students identify, establish and stay focused on a career goal and a career pathway program of study. Both academic and CT teachers offer classroom experiences that enable students to explore their interests and aptitudes and learn about available educational and career opportunities. Section V of this report offers a set of guidelines for counseling for careers.

7. CT courses are taught by highly qualified teachers who have demonstrated their mastery of the academic, technical and 21st-century standards, skills and teaching methods needed to create challenging learning experiences and engage students in those experiences. CT teachers hold the industry credentials that students are expected to acquire in their career pathway programs of study.

CT teachers need professional development support to stay abreast of changing industry standards, academic and technical college- and career-readiness standards, and the technologies related to the courses and programs they offer. In its work on curriculum integration, the National Research Center for Career and Technical Education (NRCCTE) has outlined five core principles that facilitate integrated, contextual teaching and are critical to supporting high-quality CT teachers. These include (1) developing and sustaining a teacher community of practice centered on the occupational context but including both technical and academic teachers, (2) beginning the process of integrating the curriculum with the technical, not the academic curriculum, (3) understanding that academics offer essential workplace knowledge and skills, (4) maximizing the academic knowledge and skills contained in the occupational curriculum, and

- (5) recognizing that CT teachers are not academic teachers, but teachers of academics in the context of their career field. See Section VII for further recommendations on professional development for CT teachers.
- CT teachers work with both industry and postsecondary partners to create authentic projects and problems, assess the quality of student work against workplace and postsecondary requirements, offer students work-based learning experiences and provide students with information and advising that eases their transition from the technical center to further education and training and employment. The state's industry task forces, following the Signature Features of Career Pathway Programs of Study, can generate across Kentucky's economic regions more career pathway programs of study like TRACK (see sidebar on Tech Ready Apprentices for Careers in Kentucky).

TRACK: Tech Ready Apprentices for Careers in Kentucky

Currently being piloted in 13 high school technology centers offering manufacturing programs, TRACK is a partnership between the Office of Career and Technical Education and the Kentucky Labor Cabinet to provide pre-apprenticeship opportunities to high school students. Driven by industry, the program seeks to create a pipeline to postsecondary apprenticeship training. Participating employers choose a minimum of four courses from the manufacturing course offerings at the school, with one of the courses being a cooperative education placement. Students successfully completing the program are awarded an industry certification by the employer through the Labor Cabinet and receive credit for all on-the-job hours worked toward the apprenticeship. The certification also counts toward the school district's college- and career-ready accountability index.

Table 3: Summary of Statewide Recommendations For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs

Economic Sector

Recommended Industry Sector Advisory Panel

or adopting new ones.

Automobile and Aircraft Manufacturing

Establish a state Manufacturing task force
that will study existing technical center
manufacturing programs, the quality of student
assignments and work in those programs and
the adequacy of their facilities and technology.
The task force will make recommendations for
redesigning and repurposing existing programs

Recommended Actions

- Prioritize the implementation of the Advanced Career Creating the Future: Design and Production of Tomorrow's Products manufacturing curriculum currently being developed by SREB, the state of Kentucky and Kentucky manufacturers, as applicable in different economic regions of the state. http://www.sreb.org/page/1608/Advanced_Career.html
- Create an optional career pathway program of study using the Advanced Career manufacturing curriculum that provides a non-duplicative sequence of technical and college-ready academic courses offered across the technical center, the home high school and the community college and leads to further education (including industry certifications, associate's degrees or higher), work-based learning at industry sites and good jobs in the industry.

Table 3: Summary of Statewide Recommendations For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs (Continued)

Economic Sector	Recommended Industry Sector Advisory Panel	Recommended Actions
Transportation, Distribution and Logistics	 Establish a state Transportation, Distribution and Logistics task force to address improving existing programs and developing new programs as needed in this sector. 	 Determine and track annually the number of program graduates who acquire transportation sector-related industry certifications, including the number who acquire a single certificate versus a more complete set of certifications.
		 Develop an optional career pathway program of study in this sector that unites technical centers, community colleges and industry in preparing graduates to acquire a comprehensive set of transportation-related credentials. Make work-based learning a critical feature of these programs at both the secondary and postsecondary levels.
		 Determine whether additional career pathway programs of study are needed to address employment opportunities in distribution and logistics.
		Consider adopting the Advanced Career: Global Logistics and Entrepreneurship curriculum being developed by SREB and the state of New Jersey in a region of Kentucky with a high need for such a program. http://www.sreb.org/ page/1608/Advanced_Career.html
Business Services and R&D: Business and Administration: Administrative Support	 Establish a state Business Services task force that will develop optional career pathway programs of study in this area. 	
Business Services and R&D: Finance: Financial Services	 Convene, under the Business Services task force, a panel on the Banking, Finance and Insurance industry. Charge this panel with inventorying current career pathway offerings in this area at the comprehensive high schools and determining their strengths and weaknesses. 	 Study the need to establish new or improve existing career pathway programs of study in the Financial Services sector. Investigate whether to adopt the National Academy Foundation's Academy of Finance in strategic regions of the state, either in comprehensive high schools or in technical centers, and develop companion two-year programs at the community colleges. http://naf.org/files/page/2009/06/AOF_OneSheet.pdf

Table 3: Summary of Statewide Recommendations For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs (Continued)

Economic Sector	Recommended Industry Sector Advisory Panel	Recommended Actions
Business Services and R&D: Information Technology	 Convene a state IT task force that will examine existing offerings at the technical centers and community colleges and identify whether their programs meet emerging industry needs. 	Consider expanding career pathway programs that prepare students in computer programming and computer systems design. As part of a pathway leading to college degrees and high-paying jobs in the IT field, such programs should include AP Computer Science in high school, dual credit or dual enrollment at local community colleges and work-based learning opportunities with industry.
		 Consider implementing the Advanced Career: Informatics curriculum currently being developed by SREB and the state of Kentucky. http://www. sreb.org/page/1608/Advanced_Career.html
		 Consider implementing the Advanced Career: Health Informatics curriculum being developed by SREB and the state of Ohio. http://publications.sreb.org/2013/AC_health_ Informatics_8_5_13.pdf
Business Services and R&D: Marketing		 Investigate and determine whether there is a need to create a Telemarketing career pathway program of study — 74 annual job openings are projected in this area.
Business Services and R&D: STEM	■ Establish a state STEM task force that will examine current STEM-related offerings not only at the technical centers and community colleges, but also in the comprehensive high schools. This task force could help develop academically and technically rigorous optional career pathway programs of study leading to advanced education and training and STEM careers.	Consider adopting the Advanced Career: Innovations in Science and Technology curriculum being developed by SREB and the state of Arkansas. http:// publications.sreb.org/2013/AC_science_ technology_4pager_11_14_13.pdf

Table 3: Summary of Statewide Recommendations For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs (Continued)

of Study or the Redesign, Repurposing and Expansion of Existing Programs (Continued)						
Economic Sector	Recommended Industry Sector Advisory Panel	Recommended Actions				
Health Care/Social Assistance	Establish a state Health Science task force that would examine current program offerings at technical centers and community colleges and offer recommendations to identify potential new pathways, strengthen and align existing pathways and determine whether curriculum and instruction in existing pathways are preparing students for careers in this rapidly changing, technologically advanced industry.	 Consider adopting the Advanced Career: Health Informatics curriculum, developed by SREB and the state of Ohio, in the Kentucky's largest urban areas. http://publications.sreb.org/2013/AC_health_Informatics_8_5_13.pdf Expand the PLTW Biomedical Science curriculum, which prepares students for a range of health science programs at both the community college level and beyond. 				
		 Expand the number of students enrolled in high school pre-nursing career pathway programs of study. These programs should provide a strong foundation in science and math, offer opportunities to earn dual credit and emphasize the problem-solving and critical thinking skills needed for success in postsecondary practical nursing and registered nursing programs. 				
		 Develop a pathway to prepare students for the clinical medical laboratory technician program offered by local community colleges. 				
Energy Creation/ Transmission	 Establish a state Energy task force to examine current technical center program offerings and consider what a career pathway program of study spanning secondary and postsecondary studies in this sector might look like. 	 Consider adopting the Advanced Career: Clean Energy Technology curriculum developed by SREB and the state of South Carolina at one or more technical centers. http:// publications.sreb.org/2013/AC_clean_ energy_4pager_11_14_13.pdf 				
		 Consider adopting the Advanced Career: Energy and Power curriculum developed 				

by SREB and the state of West Virginia at one or more technical centers. http://publications.sreb.org/2013/AC_energy_

power_4Pager_11_14_13.pdf

Table 4: Summary of Recommendations by Economic Region For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs

Region/Economic Sector	Recommended Actions by Region
Barren River	
Energy	Convene an energy sector task force and decide if an energy pathway is needed.
Banking, Finance and Insurance	 Consider adopting the National Academy Foundation's Academy of Finance in strategic regional locations, and developing a companion two-year program at the local community college. http://naf.org/files/ page/2009/06/AOF_OneSheet.pdf
Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, Creating the Future: Design and Production of Tomorrow's Products, blending the curriculum with work-based learning and further education and training at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html
Bluegrass	
Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, Creating the Future: Design and Production of Tomorrow's Products, blending the curriculum with work-based learning and further education and training at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html
Health Care	 Consider adopting the Advanced Career: Health Informatics curriculum, developed by SREB and the state of Ohio. http://publications.sreb.org/2013/AC_health_Informatics_8_5_13.pdf
	Expand the PLTW Biomedical Science curriculum, which prepares students for a range of health science programs at both the community college level and beyond.
Energy and Natural Resource Extraction	 Consider adopting the Advanced Career: Clean Energy Technology curriculum developed by SREB and the state of South Carolina. http://publications.sreb.org/2013/AC_clean_energy_4pager_11_14_13.pdf
	 Consider adopting the Advanced Career: Energy and Power curriculum developed by SREB and the state of West Virginia. http://publications.sreb.org/2013/AC_energy_power_4Pager_11_14_13.pdf
Transportation, Distribution and Logistics	 Determine whether an optional career pathway program of study is needed in this sector that unites technical centers, community colleges and industry in preparing graduates to acquire a comprehensive set of transportation-related credentials.
Banking, Finance and Insurance	 Consider adopting the National Academy Foundation's Academy of Finance in strategic regional locations, and developing a companion two-year program at the local community college. http://naf. org/files/ page/2009/06/AOF_OneSheet. pdf.
Business Support Services	 Consider developing a career pathway to prepare individuals in computer programming and computer systems.
	 Consider adopting the Advanced Career: Informatics curriculum, currently being developed by SREB and the state of Kentucky. http://www.sreb.org/page/1608/Advanced_Career.html
STEM	 Consider adopting the Advanced Career: Innovations in Science and Technology curriculum being developed by SREB and the state of Arkansas. http://publications.sreb.org/2013/AC_science_technology_4pager_11_14_13.pdf

Table 4: Summary of Recommendations by Economic Region For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs (Continued)

Region/Economic Sector	Recommended Actions by Region
Cumberlands	
Energy and Natural Resource Extraction	 Consider adopting the Advanced Career: Clean Energy Technology curriculum developed by SREB and the state of South Carolina. http://publications.sreb.org/2013/AC_clean_energy_4pager_11_14_13.pdf
Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, Creating the Future: Design and Production of Tomorrow's Products, blending the curriculum with work-based learning and further education and training at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html.
Transportation, Distribution and Logistics	No recommendations.
Finance and Insurance	 Consider adopting the National Academy Foundation's Academy of Finance in strategic regional locations, and developing a companion two-year program at the local community college. http://naf. org/files/ page/2009/06/AOF_OneSheet. pdf.
Professional Services/ Administrative Support/IT/STEM	 Consider adopting the Advanced Career: Innovations in Science and Technology curriculum being developed by SREB and the state of Arkansas. See http://publications.sreb.org/2013/AC_science_technology_4pager_11_14_13.pdf
	 Convene a STEM task force to examine the need to create optional career pathways in STEM that align with postsecondary education and training and lead to associate's and bachelor's degrees.
EKCEP	
Energy and Natural Resource Extraction	 Consider adopting the Advanced Career: Clean Energy Technology curriculum developed by SREB and the state of South Carolina. http://publications.sreb.org/2013/AC_clean_energy_4pager_11_14_13.pdf
Manufacturing	 Convene an industry panel to determine whether current program offerings are adequate and whether what students are being taught meets industry needs.
Transportation, Distribution and Logistics	 Convene a transportation panel to determine whether new offerings are needed and how to better align high school programs with community college programs and work-based learning opportunities.
Finance and Insurance	 Consider adopting the National Academy Foundation's Academy of Finance in strategic regional locations, and developing a companion two-year program at the local community college. http://naf. org/files/ page/2009/06/AOF_OneSheet. pdf.
Professional Services/ Administrative Support/IT/STEM	 Convening a broad industry panel in the area of Professional Services/Administrative Support/IT/STEM to examine whether or not currently existing programs address workforce needs.

Table 4: Summary of Recommendations by Economic Region For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs (Continued)

Region/Economic Sector	Recommended Actions by Region
Greater Louisville/ Lincoln Trail	
Energy	 Consider adopting the Advanced Career: Clean Energy Technology curriculum developed by SREB and the state of South Carolina. http://publications.sreb.org/2013/AC_clean_energy_4pager_11_14_13.pdf
Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, <i>Creating the Future: Design and Production of Tomorrow's Products</i> , blending the curriculum with work-based learning and further education and training at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html.
Transportation, Distribution and Logistics	 Develop an optional career pathway in the broad field of transportation, distribution and logistics that includes work-based learning opportunities, leads to postsecondary education and training and culminates in certificates and associate's degrees.
	 Consider adopting the Advanced Career: Global Logistics and Entrepreneurship curriculum being developed by SREB and the state of New Jersey. http://www.sreb.org/page/1608/Advanced_Career.html
Banking, Finance and Insurance	 Consider adopting the Advanced Career: Informatics curriculum currently being developed by SREB and the state of Kentucky. http://www.sreb.org/page/1608/Advanced_Career.html
	 Consider adopting the National Academy Foundation's Academy of Finance in one or more technical centers or one or more comprehensive high schools: http://naf. org/files/page/2009/06/AOF_OneSheet. pdf
	 Consider adopting Course One from the Advanced Career: Project Management curriculum currently being developed by SREB and the state of North Carolina. http://www.sreb.org/page/1608/Advanced_ Career.html
STEM	 Consider adopting the Advanced Career: Innovations in Science and Technology curriculum being developed by SREB and the state of Arkansas. http://publications.sreb.org/2013/AC_science_technology_4pager_11_14_13.pdf.
Green River	
Energy Sector	 Consider adopting the Advanced Career: Clean Energy Technology curriculum developed by SREB and the state of South Carolina. http://publications.sreb.org/2013/AC_clean_energy_4pager_11_14_13.pdf
Manufacturing/Food Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, Creating the Future: Design and Production of Tomorrow's Products, blending the curriculum with work-based learning and further education and training at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html
Transportation, Distribution and Logistics	 Consider adopting the Advanced Career: Global Logistics and Entrepreneurship curriculum being developed by SREB and the state of New Jersey. http://www.sreb.org/page/1608/Advanced_Career.html
Banking, Finance and Insurance	 Consider adopting the National Academy Foundation's Academy of Finance in strategic regional locations, and developing a companion two-year program at the local community college. http://naf. org/files/ page/2009/06/AOF_OneSheet. pdf
Professional Services / Administrative Support/IT/STEM/	Investigate and determine whether there is a need to create a Telemarketing career pathway program of study: 74 annual job openings are projected in this area.

Marketing

Table 4: Summary of Recommendations by Economic Region For Proposed New Career Pathway Programs of Study or the Redesign, Repurposing and Expansion of Existing Programs (Continued)

Region/Economic Sector	Recommended Actions by Region
Northern Kentucky	
Manufacturing/Food Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, <i>Creating the Future: Design and Production of Tomorrow's Products</i> , blending the curriculum with work-based learning and further education and training at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html
Transportation, Distribution and Logistics	 Convene an industry task force to determine if there is a need for a general transportation pathway that focuses on logistics. If so, consider adopting the Advanced Career: Global Logistics and Entrepreneurship curriculum being developed by SREB and the state of New Jersey. http://www.sreb.org/page/1608/ Advanced_Career.html
Banking, Finance and Insurance	 Consider adopting the National Academy Foundation's Academy of Finance in strategic regional locations, and developing a companion two-year program at the local community college. http://naf.org/files/ page/2009/06/AOF_OneSheet.pdf
Recreation	 Consider adopting the National Academy Foundation's Academy of Hospitality & Tourism in one or more of the comprehensive high schools or technical centers in this region. http://naf.org/files/page/2009/06/ AOHT_OneSheet.pdf
TENCO	
Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, Creating the Future: Design and Production of Tomorrow's Products, blending the curriculum with work-based learning and further education and training at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html
Transportation, Distribution and Logistics	Conduct a study to determine the percentage of high school graduates earning the comprehensive credentials needed to work on all parts of vehicles, as well as the percentage of graduates earning credentials on specialized parts, in order to determine if the balance is appropriate or if more students need to be encouraged to attend community college to earn the full set of credentials.
Banking, Finance and Insurance	 No recommendations.
STEM	 Consider adopting the Advanced Career: Innovations in Science and Technology curriculum being developed by SREB and the state of Arkansas. http://publications.sreb.org/2013/AC_science_technology_4pager_11_14_13.pdf
Western Kentucky	
Agriculture and Food Production	No recommendations.
Energy	 Consider adopting the Advanced Career: Clean Energy Technology curriculum developed by SREB and the state of South Carolina. http://publications.sreb.org/2013/AC_clean_energy_4pager_11_14_13.pdf
Transportation, Distribution and Logistics	 Convene a Transportation, Distribution and Logistics task force for the region that includes experts from postsecondary institutions and economic development organizations to examine the need to create a broad-based curriculum in the area of transportation, distribution and logistics.
Manufacturing	Increase the number of students pursuing manufacturing by adopting the Advanced Career Manufacturing pathway developed by SREB and Kentucky entitled, <i>Creating the Future: Design and Production of Tomorrow's Products</i> , blending the curriculum with work-based learning and further education and training at the least companying solution.

at the local community college. http://www.sreb.org/page/1608/Advanced_Career.html

Section II: College- and Career-Readiness Standards

Research Question: How well have students at Kentucky's 95 state and local technical centers succeeded in meeting new state benchmarks in career readiness, college readiness or both?

Findings

A number of Kentucky's 95 state and local technical centers are functioning at a high level and producing significant percentages of students with the academic knowledge and skills needed to meet state college- and career-readiness benchmarks. However, a significant number of state and local technical centers are experiencing much less success in preparing students to meet technical career-readiness benchmarks. Overall, extreme differences exist in student academic and technical achievement across centers; such marked differences signal that all centers, with adequate support from the state and local district, must strive to improve their curricula, instruction and assessments to meet the state's college- and career-readiness goals.

For students in career-technical (CT) pathways, industry certification examinations represent an important measurement of academic and technical knowledge and skills. Such examinations also serve as a valuable source of accountability data, as a mechanism for earning college credits and as evidence of employability. Although the state offers a broad range of these examinations, SREB identified problems and inconsistencies not only in how they were selected and assessed, but also in their overall quality and relevance. In particular, industry stakeholders at present are insufficiently involved in identifying and approving certification examinations.

As part of its study of the state's system of technical assessments, SREB looked at the Kentucky Occupational Skills Standards Assessment (KOSSA), exploring whether it met acceptable reliability and validity standards. As the state continues to identify

and implement rigorous industry certification examinations, the KOSSA should be phased out in areas in which industry certifications exist. All technical centers have received state funding to take the KOSSA exam, but only the state centers have received state funding for the WorkKeys exam. Inequities in funding the WorkKeys exam have placed local centers at a considerable disadvantage compared to the state centers. If all of the state's 95 centers are to thrive, a more coherent, consistent policy is needed in this area.

Finally, SREB also explored how the state's technical centers use assessment data. Although there is evidence that centers are using assessment data to drive instructional improvement and reward students and schools for their successes, more support is needed to make continuous data-driven improvement an integral part of the culture of all technical centers.

In the subsections that follow, an in-depth exploration of these findings and a series of recommendations for actions are provided to improve technical centers.

Meeting College- and Career-Readiness Benchmarks

A higher percentage of students at Kentucky's technical centers have the academic skills needed to complete challenging assignments in their CT classrooms and labs. However, based on Kentucky's *College and Career Readiness for All* benchmarks, CT students appear to be better prepared academically than they are technically. As described in the introduction to this report, KDE defines academic career readiness as having met the benchmarks set for college readiness on the ACT, ACT's Compass college placement test, or the KYOTE exam, or by performing at a satisfactory level on the WorkKeys or ASVAB. As Table 5 shows, in the 2012-13 school year, 63 percent of students at all 95 state and local centers met academic career-ready benchmarks;

49 percent met technical career-ready benchmarks; 40 percent met both academic and technical career-ready benchmarks; and 41 percent met college-ready benchmarks. However, great variance existed among the 95 centers in the percentage of students meeting academic and technical career-readiness benchmarks. State centers had significantly higher percentages of students meeting academic, technical and combined academic and technical career-readiness benchmarks. As Table 5 shows, although 6 percent more students at

the local centers are meeting college-ready benchmarks compared to their peers at the state centers, 10 percent more students at the state centers are meeting state career-ready academic benchmarks compared to students at the local centers. This may be because students at the local centers are not taking the WorkKeys or ASVAB exams. As noted, local centers reported not being able to give the WorkKeys or ASVAB exams due to their cost. State centers receive state funds to administer these exams.

Table 5: Variances Among State and Local Centers in the Percentage of Students Meeting College- and Career-Readiness Benchmarks					
		College-Ready (%)	Career-Ready Academic ¹ (%)	Career-Ready Technical (%)	Career-Ready Academic & Technical ¹ (%)
All centers	n = 95 sites	41	63	49	40
State centers	n = 53 sites	38	68	52	43
Local centers	n = 42 sites	44	58	46	36

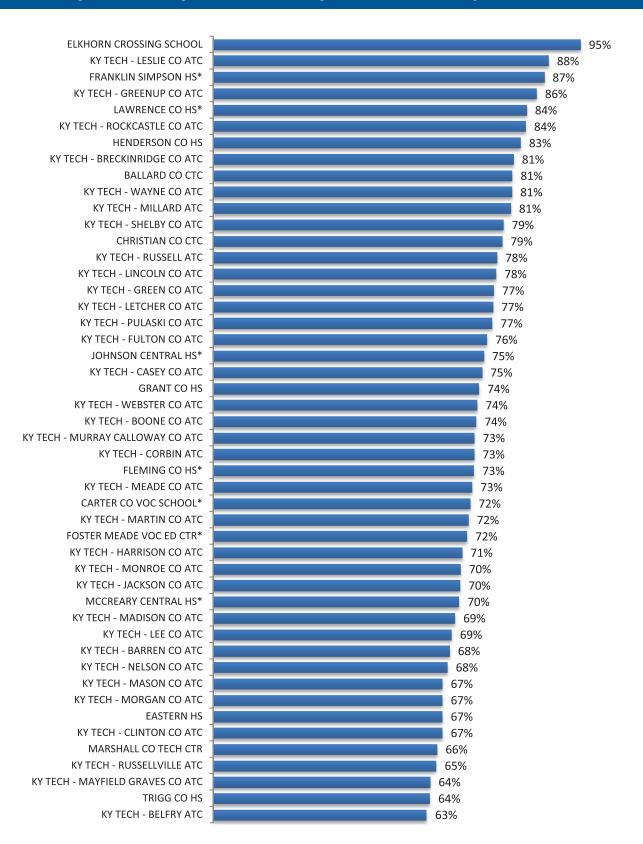
¹ Academic career readiness is defined as having scored at a satisfactory level on the WorkKeys, ASVAB, ACT or a college placement examination like ACT's Compass.

Source: Data provided by KDE for the 2012-13 school year.

Figures 2 through 7 illustrate the high degree of variance in student performance across centers. The percentage of students meeting academic career-readiness benchmarks ranged from 95 percent at the highest performing site (Figure 2) to 25 percent at the lowest performing site (Figure 3). The percentage of students meeting technical readiness benchmarks ranged from 76 percent at the highest performing site

(Figure 4) to only 13 percent at the lowest performing site (Figure 5). The percentage of students meeting both academic and technical career-readiness benchmarks ranged from 71 percent at the highest performing site (Figure 6) to just 10 percent at the lowest performing site (Figure 7).

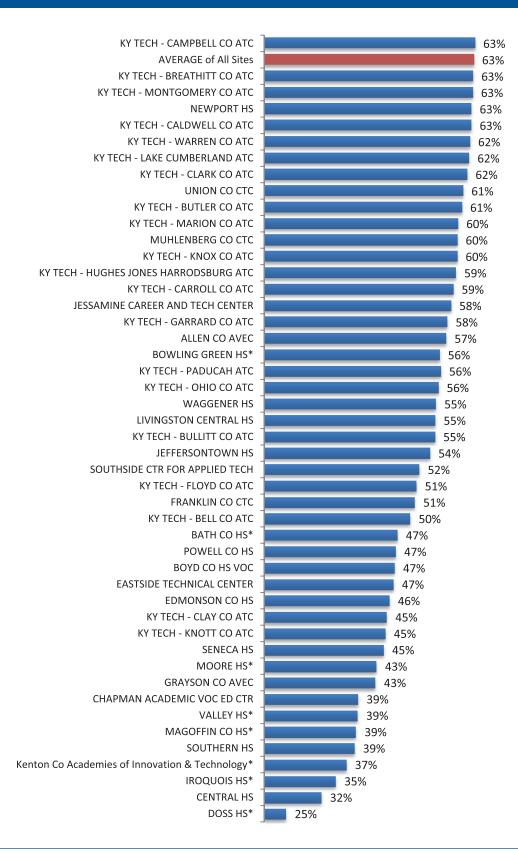
Figure 2: Percentage of Students Meeting Academic Career-Ready Benchmarks¹



¹ Academic career readiness is defined as having scored at a satisfactory level on the WorkKeys, ASVAB, ACT or a college placement examination like ACT's Compass.

^{*} School did not participate in the TCTW Student and/or Faculty Surveys

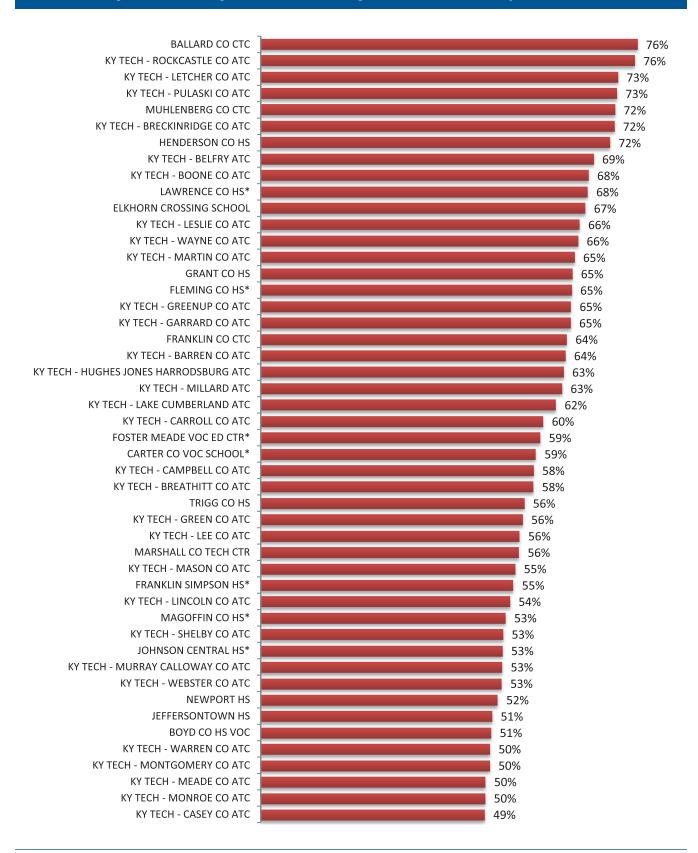
Figure 3: Percentage of Students Meeting Academic Career-Ready Benchmarks¹ (Continued)



¹ Academic career readiness is defined as having scored at a satisfactory level on the WorkKeys, ASVAB, ACT or a college placement examination like ACT's Compass.

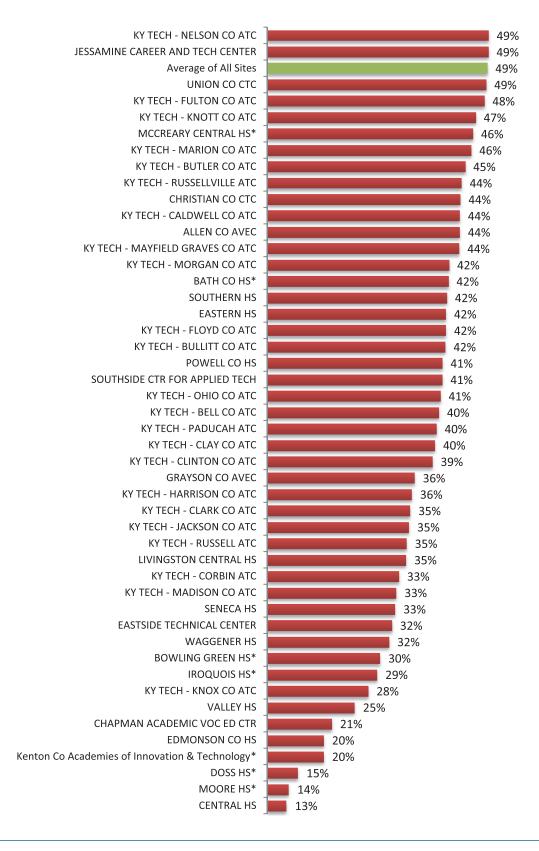
^{*} School did not participate in the TCTW Student and/or Faculty Surveys

Figure 4: Percentage of Students Meeting Technical Career-Ready Benchmarks



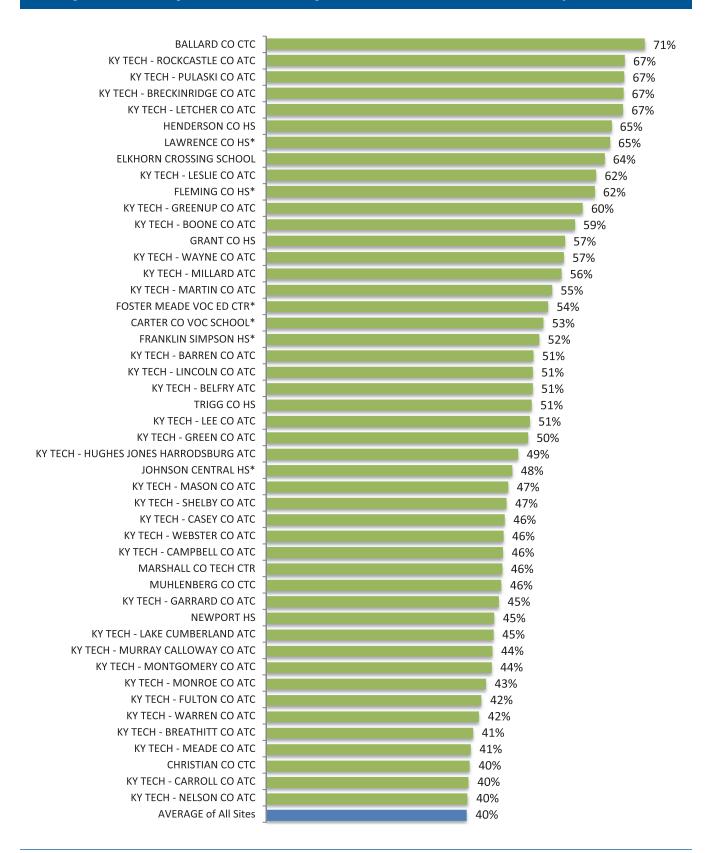
^{*} School did not participate in the TCTW Student and/or Faculty Surveys

Figure 5: Percentage of Students Meeting Technical Career-Ready Benchmarks (Continued)



^{*} School did not participate in the TCTW Student and/or Faculty Surveys

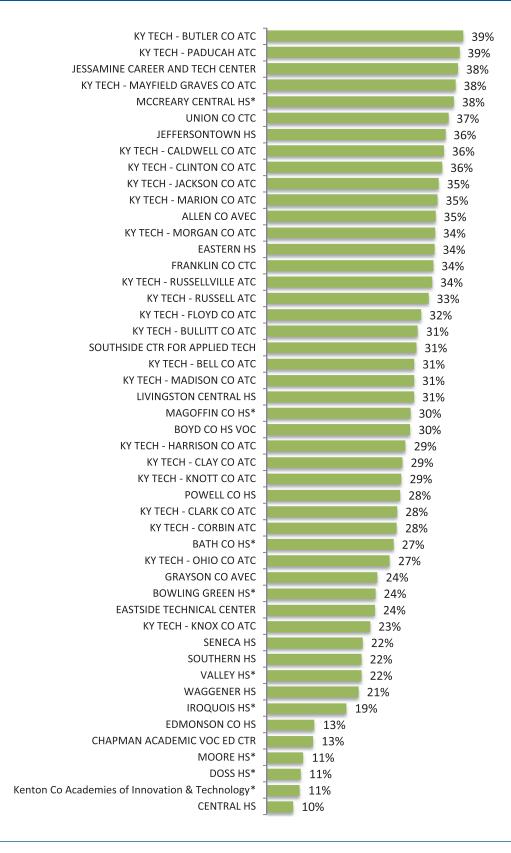
Figure 6: Percentage of Students Meeting Academic 1 and Technical Career-Ready Benchmarks



¹ Academic career readiness is defined as having scored at a satisfactory level on the WorkKeys, ASVAB, ACT or a college placement examination like ACT's Compass.

^{*} School did not participate in the TCTW Student and/or Faculty Surveys

Figure 6: Percentage of Students Meeting Academic and Technical Career-Ready Benchmarks (Continued)



¹ Academic career readiness is defined as having scored at a satisfactory level on the WorkKeys, ASVAB, ACT or a college placement examination like ACT's Compass.

^{*} School did not participate in the TCTW Student and/or Faculty Surveys

As Tables 6 and 7 show, for comparison purposes, state and local technical centers were broken down into three groups according to the percentage of students at each center meeting academic and technical career-readiness benchmarks. Out of a total of 53 state centers, 21 sites ranked in the top,

20 sites ranked in the middle and 12 sites ranked in the bottom. Out of a total of 42 local centers, only those sites that participated in the TCTW Faculty and Student Surveys were included, or 27 sites. Of these, just five ranked in the top, eight in the middle and 14 in the bottom.

Table 6: Percentage of Students Meeting Academic and Technical Career-Readiness Benchmarks at State Centers						
Career-Ready State Centers by Performance Levels Career-Ready Academic 1 (%) Technical (%)						
Тор	n = 21 sites	75	62	54		
Middle	n = 20 sites	65	48	39		
Bottom	n = 12 sites	57	38	31		

¹ Academic career readiness is defined as having scored at a satisfactory level on the WorkKeys, ASVAB, ACT or a college placement examination like ACT's Compass.

Source: Data provided by KDE for the 2012-13 school year.

Table 7: Percentage of Students Meeting Academic and Technical Career-Readiness Benchmarks at Local Centers						
Career-Ready Career-Ready Both Local Centers by Performance Levels Academic 1 (%) Technical (%) (%)						
Тор	n = 5 sites	78	70	61		
Middle	n = 8 sites	62	51	40		
Bottom	n = 14 sites	46	35	24		
Others ²	n = 15 sites	60	45	38		

¹ Academic career readiness is defined as having scored at a satisfactory level on the WorkKeys, ASVAB, ACT or a college placement examination like ACT's Compass.

Source: Data provided by KDE for the 2012-13 school year.

Variance existed across the three performance levels and across state versus local centers. More state centers placed in the top of student performance, with fewer centers in the bottom; the opposite was true for local centers, where more sites placed in the bottom than in the top and middle combined. On first glance, it would appear that somewhat larger percentages of students at local centers ranked in the top or middle met benchmarks compared to students at the state centers. However,

these figures do not include some 15 local centers that failed to participate in the TCTW Faculty and Student Surveys. SREB was unable to combine these centers' data into its site rankings.

Overall, all centers — both state and local — must do better if they are to help greater numbers of students meet the state's academic and technical career-readiness benchmarks; as Tables 6 and 7 show, some have much further to go than others.

^{2 &}quot;Others" are sites that did not participate in the TCTW Faculty or Student Surveys.

Interviewed administrators were aware of the challenges inherent in moving all centers toward meeting the state's academic and technical career-readiness benchmarks, especially for those local centers that were adjusting to the state's new accountability standards. As one superintendent stated during a focus group session:

I have been working closely with our technical center during the last couple of years to increase the percentage of students who are career-ready, and my first major challenge is to educate technical center staff on what career readiness means in terms of changing... instructional practices. The second is to ensure that our technical centers are equally competent in all areas. There is a disconnect between the technical center staff and the local district... Technical center employees must understand the importance of career readiness and what it means to our district, and how we can work together in a unified way to connect the technical center to the total high school experience.

Recommendations:

Set as a target that 90 percent of all students completing a coherent CT sequence of at least three courses will meet both academic and technical career-readiness benchmarks. The state should provide incentives to all districts, schools and centers making significant gains in the percentage of CT students meeting these ambitious but necessary goals.

- Incentivize technical centers and individual career pathway programs that demonstrate significant improvement in the percentages of students successfully meeting academic and technical career-readiness standards. Any technical center or career pathway program meeting or making significant progress toward meeting the state's goal of 90 percent of CT sequence completers meeting academic and technical career-readiness standards would receive additional incentive funds to upgrade equipment, supplies and curriculum for instruction and provide professional development for center staff.
- Require any CT center in which less than 50 percent of students meet academic and technical career-readiness standards to work collaboratively with an external group, the district and KDE to develop a comprehensive improvement plan that addresses what each CT program must do to make continued gains in the percentage of students meeting benchmarks. Such plans should focus on improving curricula and instructional quality and ensuring that curricula, instruction, student assignments and classroom assessments are fully aligned with relevant academic, technical and 21st-century skills. (See Section I for Signature Features of Career Pathway Programs of Study, this section's sidebar for Best Practices Priorities for Kentucky's Technical Centers and Section VI for recommendations on rigorous assignments.)
- Failure to demonstrate improvement in the number of students meeting academic and technical career-readiness benchmarks after a period of three years should serve as a criterion for changing center leadership and discontinuing those programs that fail to make improvements. At present, the state has few mechanisms for cutting ineffective programs. As one state official commented, "It has literally taken years to get rid of unproductive programs. We must find ways to change that mindset."

- Establish a guiding framework of proven practices that, when implemented with fidelity, can improve student readiness for college and careers. These practices, as described in *Best Practices Priorities for Kentucky's Technical Centers* (see the sidebar), will inform districts, technical centers and home high schools as they create and implement their educational processes.
- The state should bear the cost of academic and technical assessments at all technical centers, whether state or locally run. At present, CT students demonstrate academic career readiness by meeting benchmarks on either the ACT or Compass examinations or the WorkKeys or ASVAB examinations. However, the ASVAB and WorkKeys should be administered only if CT students do not meet college-readiness benchmarks on the ACT or Compass. The money presently being used to pay for WorkKeys assessments for students at the state centers who have already met state college-readiness benchmarks on the ACT or Compass could be used to pay for WorkKeys assessments at local centers, which currently do not receive funding for the WorkKeys.

Industry Certification Examinations

Currently, Kentucky offers more than 210 approved industry certifications. For a certification to receive state approval, an online form must be completed and the assessment must be reviewed by KDE staff. A given certification must meet the following criteria in order to be considered for federal Perkins accountability or the career readiness component of KDE's *College and Career Readiness for All* benchmarks:

- 1. Recognized, endorsed or required by industry.
- 2. Written and verified by national or state industries.
- 3. Curriculum and certification aligned with state and/or national standards.

Best Practices Priorities for Kentucky's Technical Centers

- Prepare students for multiple options
 after high school both postsecondary
 study and work by providing them with
 access to challenging, optional career
 pathway programs of study incorporating
 rigorous academic and technical studies
 and authentic, problem-based learning
 experiences. Working in conjunction with
 its postsecondary and business and industry
 partners, the state must work to redesign its
 existing programs or design new programs
 to meet this goal. (See Section I for Signature
 Features of Career Pathway Programs of Study.)
- 2. Support CT teachers in designing quality assignments that engage students in learning required knowledge and skills and result in products that demonstrate learning of required content. Students need to be engaged in challenging and authentic assignments that require them to (1) apply critical thinking and problem-solving skills, (2) use technology and software, and (3) apply literacy, math and technical skills to complete. (See Section VI for recommendations regarding rigorous assignments.)
- 3. Train all teachers to support students' overall literacy development, especially in grades nine and 10. Getting students to grade level in literacy will require (1) technical centers to partner with the home high schools, with all teachers receiving training in how to engage students in reading grade-level texts in their subject areas, (2) reading comprehension strategies that can help students make sense of content-area texts, (3) designing reading and writing assignments that are likely to motivate students who lack engagement in school activities, and (4) reading and writing in ways that are distinct to students' content areas.

Continued on next page

4. Certification must be an end-of-program assessment related to students' identified career pathway achieved through a sequence of courses. (Source: KDE — KOSSA and Industry Certification List)

SREB uncovered a number of issues related to the selection, approval, administration and assessment of industry certification exams across the state.

First, little evidence indicated that industry was involved in selecting or approving certifications either locally, regionally or statewide. During focus groups, many industry partners expressed frustration at what they perceived as their lack of ownership of or involvement in the certification selection and approval process.

Second, technical center directors and superintendents noted budget constraints limited their ability to give students industry certification exams. Industry certification exams are vitally important not only for accountability purposes, but also for identifying needed areas of instructional or programmatic improvement. Further, they offer students a powerful and valuable incentive to continue in their chosen career pathways. At present, not enough students pursue further education and training in the same program of study after high school. Students' failure to follow their career pathways into continued learning reveals a weak connection between the secondary and postsecondary components of the state's career pathway programs of study.

Third, although industry certifications may currently be recommended by local districts and technology centers, one interviewee commented, "It's my sense that in order to meet accountability requirements, districts are looking to find easy examinations that may or may not have the most value to employers, the state's economy or individual students." In their haste to approve low-level industry certification exams that do not lead to advanced opportunities in a given career field, school districts and technical centers may be reducing the number of individuals who are academically, technically and cognitively prepared for the high-skill, high-wage, high-demand jobs available in their region or the state.

Best Practices Priorities for Kentucky's Technical Centers

- 4. Use a balanced approach to instruction in mathematics that emphasizes understanding, reasoning and application of mathematics while building procedural fluency. Students need to receive math instruction that develops their math understanding and allows them to apply that understanding to the kinds of multi-step problems required in the modern workplace. As with literacy, the technical centers must partner with the home high schools to improve math instruction.
- 5. Implement a counseling for careers program designed to help students develop an understanding of their career interests and aptitudes, learn about career opportunities and the required level of preparation for those opportunities, and adopt habits of success for school, life and the workplace. Students need to engage in rich and varied experiences that help them learn about and explore careers, including taking a career exploratory course; working during high school, job-shadowing, or visiting a work site; and receiving advisement on educational and career planning with a counselor or with a parent and teacher adviser.
- 6. Implement a range of extra help strategies and initiatives to help students meet raised expectations. For those students who need extra help and support in literacy and math, supplemental instruction should be directly related to their technical studies. Some students may need extended time at their centers to receive such instruction.

Continued on next page

Best Practices Priorities for Kentucky's Technical Centers

- 7. Implement senior transition courses in literacy and mathematics to teach students the skills they need to learn and think independently after high school. Students who do not meet literacy and math standards may need access to senior transition courses, but not at the expense of their technical labs and courses. With a grant from the Gates Foundation, SREB developed readiness courses specifically to help close readiness gaps in literacy and math.
- 8. Implement organizational structures that allow for teachers to collaborate across disciplines. The state must encourage cross-disciplinary collaboration across occupational fields and academic disciplines by allowing technical center teachers to work with home high school teachers, either virtually or through face-to-face shared staff development.
- 9. Provide every technical center with leadership that supports continuous improvement and teacher development.

 Kentucky's technical centers need directors who (1) are instructional leaders, (2) have the knowledge and skills to set clear goals and priorities for the continuous improvement of their programs, (3) offer ongoing feedback that allows teachers to improve their instruction, and (4) support staff development.

Fourth, SREB has long held the position that industry certifications should hold value for employers — that is, all things being equal, employers should offer hiring preference to persons passing exams that are important to their industry. Passing an industry exam should carry with it increased earning opportunities, thus benefitting both the individual and the state economy. Further, passing an exam should offer long-term value to the individual, meaning the exam demonstrates that the individual passing it has sufficient depth of knowledge and the skills needed to adapt to continuously evolving workplace requirements. Based on these views, SREB advocates that employers, departments of education and other agencies (e.g., workforce councils) must participate in the process of selecting and approving industry certification exams.

Variation in Examinations' Depth and **Complexity.** How many such exams must a student pass to be considered as having met technical readiness standards? Many industry certification examinations associated with certain high-wage, high-skill, high-demand jobs are impossible to pass at the high school level; such examinations exceed the time, experience and scope of the high school curriculum and require further study at the postsecondary level as well as a certain number of hands-on work or apprenticeship hours before candidates are considered prepared to take them. For example, several Kentucky technical centers offer automotive training programs. Full Automotive Service Excellence (ASE) certification requires candidates to complete a series of certification examinations as well as two years of work experience; students may take a number of these examinations while in high school, but must complete the full series at the postsecondary level.

Other industry certifications may require students to take just one course, or a portion of one course, in order to be considered qualified to take the related exam, as SREB found in a 2009 study of the use of industry certification examinations as alternative high school assessments. § In this study, SREB determined that industry examinations should be offered as part of a sequence of related courses in a career pathway program of study. In *Observations of*

10 Randomly Chosen Industry Certification Exams, in the sidebar, SREB compared two state-approved industry certifications representing different degrees of depth and complexity. SREB found that although both certifications have value in the workplace, only one sought to prepare students for continued learning in the field. In the case of more narrowly focused certifications that may be earned after only minimal course work, SREB recommends that a series of related exams be "bundled" together as a means of ensuring students are not only prepared for entry into their career field, but are also receiving the foundation needed for further education and training.

Recommendations:

- Study and reshape the state's existing industry certification examination selection and approval process. A multi-step formal process led by KDE would seek to approve those certifications that lead to higher paying jobs, address high-demand areas and add value to the state economy:
 - ☐ First, for each proposed industry certification, the Kentucky Labor Cabinet must validate that jobs are available within the region or the state that certification holders would be qualified to fill.
 - Second, a group of employers should study and validate that graduates possessing such certifications would receive preference for employment.
 - □ Third, KCTCS should work with KDE to review each proposed industry certification exam and determine the amount of credit hours that would be earned for having passed it. An exam that requires no more than 150 hours of instruction should not earn the same number of credits as an exam that requires 600 or more hours of instruction. Earned credit hours would count toward students' advanced training in the field.
 - □ Fourth, final validation and approval of industry certification examinations should be made by the Kentucky Workforce Investment Board.

Observations of 10 Randomly Chosen Industry Certification Exams

SREB reviewed 10 randomly chosen industry certification examinations accepted by KDE. They included:

- AAFCS Pre-PAC Fashion, Textiles and Apparel
- Adobe Certified Expert
- Assessment of Skills and Knowledge for Business (ASK): Fundamental Business Concepts
- Certified Pharmacy Technician
- Cisco Certified Entry Network Technician (CCENT)
- Help Desk Institute (HDI): Support Center Team Lead
- KY Early Care & Education Orientation Certificate
- Microsoft Technology Associate (MTA Development Track): Exam 98-373: Mobile Development Fundamentals
- National Manufacturing Badge
- NCCER: Sheet Metal (Level 1)

After a review, SREB determined that some of these examinations are rigorous, applicable and recognizable in the workforce. For example, the Cisco and Microsoft certifications are high-quality exams developed by internationally recognized industry leaders. Although a student passing either of these exams would likely require more certifications to be fully employable without a college education, both represent major steps toward career entry.

Other exams sparked questions. The first question is related to the curriculum associated with the certification exams. SREB compared two exams with greatly different aims: (1) the National Manufacturing Badge, a certification provided

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Observations of 10 Randomly Chosen Industry Certification Exams

through Project Lead The Way (PLTW) and SkillsUSA, and (2) the Certified Pharmacy Technician certification. The curriculum associated with the National Manufacturing Badge is designed to help students learn more about the field. Students must complete the PLTW curriculum, comprised of three or more courses, in order to earn it as an endof-program certification. The Certified Pharmacy Technician certification is offered after just one course; its curriculum is designed to help students pass the exam. Although both certifications have value in the workplace, only the curriculum for the National Manufacturing Badge provides additional benefits (i.e., it not only helps students pass the exam, but also prepares them for further learning). By contrast, the Certified Pharmacy Technician curriculum does not deepen students' related knowledge of the field. It may be taken in isolation, outside the context of a complete curriculum (i.e., as a focused career pathway program of study).

The second question is related to the amount of course work needed to pass an exam. The two certifications described above require the completion of different amounts of course work three courses versus one course. In examining the other eight randomly selected industry certification examinations, SREB found that course work requirements ranged from as little as part of one course to at least three or four courses (e.g., the Microsoft Technology Associate sequence). Some of the shorter courses may require technical center students to have taken additional foundational courses as prerequisites to sitting for the exam. For example, a student could be required to take advanced biology and chemistry in addition to the Certified Pharmacy Technician course before being allowed to take the certification exam. In some cases, this would increase course work requirements and extend students' related knowledge of the field.

- Expand options regarding what constitutes an approved industry certification exam or alternatives to industry certification exams.
 - Where suitable industry exams are not available, the state might consider such alternative measures of technical readiness as (1) passing an end-of-course exam developed jointly by KDE and KCTCS in at least two courses in a career field, or (2) passing an approved end-of-course exam developed by a third party (e.g., SREB's Advanced Career programs, through which passing students receive transcripted postsecondary credits). Such alternatives to industry certification exams, along with other potential alternative options, would demonstrate that students have acquired the necessary credentials and plan to pursue further study in the same area.
- examinations must include both depth of knowledge and complexity as indicators of sufficient preparation for continued learning in the field. Grubb and Oakes' review of industry-based examinations was based on the idea that rigor addresses both the *depth of knowledge* measured by an examination and the *complexity* of the exam. 9 To ensure that CT curricula are both rigorous and meet industry standards, policies and procedures related to the selection of industry certification need to draw upon the expertise and guidance of industry partners.
- Consider requiring all CT teachers of record in courses or programs leading to industry certification examinations to take and pass these exams themselves. State-provided summer training may be needed to prepare teachers to take exams.
- Create a system of stackable credentials
 offering a progression of entry-level,
 intermediate and advanced certifications
 beginning in high school and continuing
 through postsecondary certificate, credential
 and degree programs. In high school, stackable
 credentials are an integral component of career
 pathway programs of study and provide a
 seamless transition to postsecondary education

and varied work-based learning opportunities in industry. Such a model will require significant alignment between KDE, KCTCS and industry training programs.

- Define the amount of transcripted community college credit that will be awarded to students who successfully pass state-approved certification examinations and meet academic readiness standards, based on the level, depth and scope of technical material assessed in those examinations. KDE, KCTCS and industry partners could work in partnership to determine how many transcripted credits may be applied toward program certificates or associate's degrees.
- Incentivize technical centers and CT programs that demonstrate improvement in the percentages of students successfully passing industry certification examinations.

The Kentucky Occupational Skills Standard Assessment (KOSSA)

At present, the KOSSA is the most widely used technical assessment in the state. Assessment items are created and evaluated by educators and industry representatives serving on the KOSSA Task Force and include multiple choice questions and multiple choice scenarios. Each item in the assessment item bank is linked to specific skill standards. The Skill Standards Assessment System serves as a performance indicator for Perkins accountability. Vocational/Technical Skill Proficiency is measured by the percentage of secondary students who receive a Skill Standards Certificate and part of the career readiness measure for CT preparatory students (i.e., those who complete three CT courses). In 2012-13, 20,817 Kentucky CT students took the KOSSA: 8,775 students (42 percent) successfully passed the exam (KDE, KOSSA results, July 2013).

SREB explored whether reliability and validity studies exist for the KOSSA. Before items are approved for inclusion in the Skill Standards Assessment Item Bank, they are piloted in schools offering the assessments. Industry and education representatives then evaluate

student responses. This review and evaluation of items is accomplished through the use of a Standard Item Analysis Report that provides performance information on each assessment item. Industry and education representatives work in teams to review items based on student outcome data and ensure that items are accurately linked to standards. Because this is an industry-driven system, great emphasis is placed on the professional judgment of industry representatives as to the importance of items to be included in the assessment. Following this pilot year, new assessment items approved by the KOSSA Task Force are added to the item bank as official test questions. Data continue to be collected on items and review and revision of items occur annually.

KDE is transitioning the KOSSA to an online assessment system in order to provide centers with detailed reports on each skill standard and how students performed so staff can align curricula and create units or lessons based on identified needs.

Recommendations:

- Eliminate the use of the KOSSA in CT areas in which robust, high-quality, industryapproved certification examinations have been identified.
- requiring teachers of record in the related career field to take and pass the teacher version of the exam. This may require the provision of summer training for existing teachers to prepare for these exams.

Inequitable Funding for Assessments

The burden of cost for administering assessments was identified as a major concern for districts. As noted, whereas state centers received a grant to pay for the WorkKeys assessment, local centers expressed frustration at having to pay for it themselves, arguing that it represented a significant financial burden for their districts. Personnel at some local centers stated that they could not administer the WorkKeys due to its cost; some believed this negatively impacted their college- and career-readiness scores.

As noted in an earlier subsection on academic and technical career-readiness standards, CT students at state centers who met ACT or Compass benchmarks were still being required to take the WorkKeys.

Although such duplicative test-taking presented an unnecessary financial burden to local centers, a number of participants noted the "soft skills" section of the WorkKeys has merit for students, centers and employers seeking an assessment of students' workplace readiness skills.

Various certification examinations are in use at different locations (i.e., state or local technical centers; CT programs in comprehensive high schools) across the state, for which the state maintains a recognized list. Overall, however, SREB found there was little consistency across centers as to who pays for these certification examinations. Some centers require students to pay for them, whereas in other cases, school districts or the state pays for students to take them.

Recommendations:

- Consider adding one of the WorkKeys soft skills assessments that address workplace readiness if the KOSSA is discontinued.
- Develop a consistent policy regarding which certification examinations will be used and how they will be funded. Students, parents and counselors must receive accurate information about which industry certification opportunities are available through the CT pathways in their schools.

Using Assessment Data

All CT programs are expected to use outcome data to identify student progress on the state's academic and technical college- and career-readiness assessments. The director of one technical center SREB's institutional review team visited stated that the faculty were just beginning to work with assessment data in order to understand where students were and to identify their needs. At the time of one center visit, a state center had recently received assessment data from the local high school and was in the process of exploring the meaning of these data with teachers.

Personnel at one state center proudly announced they had the highest number of students passing the WorkKeys in the state, with some 93 percent receiving silver and gold certificates. They accomplished this by embedding WorkKeys-like assessment questions in all student classroom examinations and by incorporating literacy and math standards into all CT assignments.

Other centers attributed their improved performance on career-readiness assessments to their practice of sharing data and information with teachers and using those data to develop interventions to meet student needs. However, during SREB's institutional review visits to six centers, it was discovered that most were still employing a "test prep" approach to preparing students for academic and technical assessments — often in the form of intensive pull-out sessions.

Statewide and at selected centers, schools and students received special recognition and other incentives for meeting college- and career-readiness standards. At graduation, students are awarded honors for meeting college (academic) and career (technical) readiness standards, with the highest honors awarded to students meeting both college- and career-readiness standards. One local center has established a set of criteria that allow qualified students to receive two years of paid tuition to a local community college. Last year, 82 students qualified, and 25 took advantage of the center's offer.

Recommendations:

- Encourage the use of academic and technical assessment data to guide school and classroom improvements in instruction and student performance. Some school leaders and teachers will need extensive professional development in how to interpret assessment results and align their curricula, instruction, assignments and assessments with industry standards.
- Discourage the use of "test prep" approaches to preparing students for academic and technical assessments. Instead, classroom activities and student assignments should be designed around real-world, project-based authentic learning that requires the application of literacy, math, technical and 21st-century skills.

Section III: Academic Support Provided by Home High Schools to Technical Center Students

Research Question: Have the academic courses taken by CT students at their home high schools been effective in preparing them for success in meeting college- and career-ready academic standards?

Findings

Based on the results of SREB's student surveys, too few students at Kentucky's state and local technical centers are completing college-ready academic courses at their home high schools; reading texts and related documents in all courses; completing mathematics assignments that emphasize reasoning, understanding and application of critical math concepts; and engaging in intellectually demanding and relevant assignments in all classes.

Institutional review and other data show little is being done at either the state or local technical centers to embed essential work-related math and literacy standards into assignments that address real-world problems. If the state is to graduate 90 percent of its CT students academically career-ready, home high schools will need to work harder to enroll CT students in a college-ready academic core and to employ teaching strategies that help those students meet or exceed the state's higher standards for literacy and math.

Also, a major change will be required in what and how students are taught at their technical centers: There, high school-level literacy and math standards must become essential tools that students use to complete authentic, real-world assignments in their career fields of study.

CT Students' Completion of the College-Ready Academic Core

As Table 9 shows, senior survey results indicate just 26 percent of students attending both the state and local centers reported completing all three parts of the recommended academic core, defined as four years of college-preparatory English, four years of math (Algebra I and higher), and three years of college-ready lab science courses. Seventeen percent more students reported completing the college-ready academic core at local centers than at state centers. However, this figure must be interpreted with caution because of the lack of participation of 15 local centers in SREB's surveys. At both the state and local centers, considerably more students reported completing the math (28 percent more) and science (26 percent more) components of the college-ready academic core than reported completing the English component of the college-ready academic core.

Table 9: Percentage of CT Students Completing the College-Ready Academic Core						
	Meet Curriculum Meet Parts of Curriculum					
	All 3 Parts (%)	2 Parts (%)	English (%)	Mathematics (%)	Science (%)	
All centers	26	30	37	65	63	
State centers	20	29	31	61	57	
Local centers*	37	32	49	73	73	

^{* 15} local centers did not participate in the student or faculty surveys. Source: 2013 TCTW Survey for Kentucky.

Just 37 percent of students at the state and local centers reported completing the recommended college-ready English courses in the academic core. Indeed, most students reported that they were enrolled in lower-level English courses. Although more students at the local centers (49 percent) reported taking college-preparatory English compared to students at the state centers (37 percent), these differenced may be attributable to the omission of 15 local centers from SREB's student survey data.

CT Students' Experiences with Literacy Instruction

As Table 10 shows, at least half of the students surveyed indicated they were not engaged in the types of experiences in their core academic classes at their home high schools that engages them in reading grade-level non-fiction texts and allows them to demonstrate their understanding of those texts through written papers and oral discussion.

Just 43 percent of seniors at state and local centers who responded to SREB's survey reported having the kinds of intensive experiences with grade-level texts that teachers are taught to deliver through the Gates Foundation-funded Literacy Design Collaborative (LDC). The LDC's college- and career-ready literacy strategies integrate literacy standards into academic and technical assignments in a way that advances students' literacy and academic and technical achievement.

CT Students' Experiences with Mathematics Instruction

Table 10 also shows that less than half of the students at the state and local centers who responded to SREB's survey reported receiving math instruction that develops their understanding of math concepts and allows them to apply that understanding to the solution of complex, multi-step problems focused on modern workplace issues. It appears that many of the teachers at these students' home high schools either did not receive Mathematics Design Collaborative (MDC) training to use formative assessments or were failing to use these tools and strategies in their instruction. Further disaggregation of the data will be needed in order to determine which technical center students are not receiving instruction that prepares them to meet state college- and career-ready math standards. Given that most students reported completing four years of college-ready math, more attention must be paid to how they are being taught.

CT Student Experiences with Challenging Assignments

As Table 10 shows, less than half of the students in all technical centers reported they were given challenging and relevant assignments. SREB's survey asked students if their assignments: (1) pushed them to engage in deeper learning, (2) required them to apply academic knowledge and skills to complete authentic work, and (3) required them to often work in teams to learn from and learn with other students.

Table 10: Percentage of CT Students Experiencing Literacy Across the Curriculum,
a Balanced Approach to Math Instruction and Assignments Matter

	Rich Literacy Experiences		Balanced Approach to Math		Assignments Matter ¹	
	Intensive (%)	Moderate (%)	Intensive (%)	Moderate (%)	Intensive (%)	Moderate (%)
All centers	43	32	47	27	48	27
State centers	38	34	45	27	47	28
Local centers	50	30	51	27	48	26

¹ Assignments Matter captures the number of students reporting they had experienced challenging and meaningful assignments in their core academic classes at their home high schools.

Source: 2013 TCTW Survey for Kentucky

Integration of Academic Standards into CT Assignments

As Table 11 shows, at the 80 technical centers responding to SREB's faculty surveys, about one-third of teachers reported their center employed a staff member whose role was to help CT teachers embed academic literacy and math standards into their assignments. This finding held true across all centers, both low- and high-performing.

However, the extent to which CT teachers reported believing in the importance of helping students master academic content varied greatly according to their centers' overall performance. Table 12 shows 83 percent of teachers at high-performing centers said they believed that it is very important to help students master the essential academic standards needed to graduate from high school and to be college- and career-ready, compared to just 69 percent of teachers at low-performing centers.

Recommendations:

Offer intensive staff development to both home high school teachers and CT teachers at the technical centers in the use of Gates **Literacy Design Collaborative (LDC)** strategies to engage CT students in reading disciplinary-related texts and expressing their understanding of those texts orally and in writing. Teachers in both the home high schools and the centers must incorporate these interdisciplinary literacy strategies in all

Industry Perspectives on Kentucky Students' Preparedness for the Workplace

At a meeting of SREB's Commission on Career and Technical Education held on December 9-10, 2013, at the Governor's Mansion in Frankfort. Kentucky, Dennis Dio Parker, Assistant Manager of Toyota's North American Production Support Center and North American Lead of Toyota's Advanced Manufacturing Technician Program stated, "Toyota needs talented people to make [it] competitive. There is definitely a skill gap. We can't get workers. With technology growth and changes, that gap will widen even more. CTE can no longer be single-skill focused. Toyota needs a multi-skilled workforce. It is scary that only 35 percent of 12th-grade students are reading on a proficient level."

During a focus group, a manufacturer from Northern Kentucky commented, "We do not employ graduates from the high school technical center because they lack the literacy and numeracy skills needed to make sound judgments, the ability to analyze and solve problems and the ability to work in teams. These are skills essential to our industry."

academic and CT courses, especially in grades nine and 10. Use of the LDC tools and strategies in CT classrooms will require some modification in task assignments in order to fit the unique nature of each career and technical area.

Table 11: Percentage of Technical Centers in which a Staff Member Helps Teachers Embed Academic Standards into CT Assignments						
Does a staff member at your technical center assist teachers in developing lesson plans to embed reading, mathematics and/or science standards into career-technical assignments?	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)			
Yes	32	33	33			

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Table 12: Percentage of Teachers Who Believe It Is Very Important to Help Students Master Academic Content

	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
Teachers believe it is very important to help students master the content in English/ language arts, mathematics and science courses needed to graduate from high school.	72	83	69

¹ Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Enroll more CT students in collegepreparatory English courses in their home high schools that engage them in reading informational texts and in preparing written reports based on their reading and related research. Further, more CT students especially male students, who are more likely to have poor literacy skills — need to be better engaged in reading grade-level texts and documenting and expressing their understanding of those texts orally and in writing in their CT classes.

According to the Georgetown Public Policy Institute, 10 young men between the ages of 18 and 19 are having more difficulty accessing opportunities than are young women. Young men's participation in the labor force has dropped from 80 percent in 1980 to just 65 percent in 2010. Between 1980 and 1990, young men earned an average of 85 cents on the dollar; by 2011, their average earnings were just 58 cents on the dollar. In 1980, 24 percent of young men earned a bachelor's degree compared to 21 percent of young women. By 2010, only 28 percent of young men earned a bachelor's degree, compared to 36 percent of young women. There are many reasons why young men are having difficulty finding good jobs and getting degrees. Many are less proficient than young women at using computers. They may lack critical learning skills. But most importantly, high school English classes and other academic classes often set lower literacy standards for young men than for young women.

- Offer intensive staff development to help home high school math teachers use Gates Mathematics Design Collaborative (MDC) strategies that emphasize teaching math for reasoning, understanding and application to multi-step problems. MDC strategies, when used effectively by teachers, can improve the math performance of CT students.
- Make math an integrated part of all student assignments at the technical centers by working with industry partners to formulate authentic, project-based assignments that require students to apply high school-level math concepts to complete the project.

Unlike "pull-out" programs focused on intensive drilling of math lessons, this process would teach math as a just-in-time application of concepts and skills. This might require the assignment of a math specialist from the home high school to the center who would work with CT teachers on math integration in both classroom instruction and project-based assignments. Authentic projects can include a formative assessment lesson that preassesses students' ability to do the math required by the assignment; those identified as needing more help can be supported with a series of steps that ensure students will be able to learn and apply the math concepts successfully.

- literacy and math courses to seniors at technical centers who have not met literacy and math standards. Developed by SREB and teams of state and local educators from 14 states, these transitional literacy and math courses should be offered as a fourth English or math course. Technical center directors should work with the local school district to secure a trained teacher to teach these transitional courses at the center and also to work with CT teachers on embedding math concepts in their instruction and assignments.
- Consider offering statistics as an optional fourth math course for CT students at home high schools.
- leaders, home high school principals and technical center directors that allows these leaders to help all teachers reshape their assignments to make them more student-centered, intellectually demanding, relevant and reflective of college- and career-ready grade-level standards. All assignments must make greater use of literacy standards and strategies, independent student research, teamwork and technology to complete assignments.

Advanced Career — Creating the Future: Design and Production of Tomorrow's Products

The approach that SREB and the state of Kentucky are taking to embed math in a new advanced manufacturing curriculum may work for CT programs at state and local technical centers. This approach may require that CT teachers receive special instruction and support on how to embed in their curricula the sciences and technical literacy and math standards most needed in the modern workplace as well as for entry into postsecondary study and advanced training.

Section IV: Articulation, Dual Credit and Alignment of Technical Center Programs with Community Colleges

Research Question: Do all programs have articulation agreements that provide postsecondary credit opportunities and a proven track record of success, and are secondary career programs aligned with current offerings at the state's community and technical colleges?

In July 2013, Kentucky took a major step toward creating a stronger system of optional career pathway programs of study spanning high school and community college when KDE Commissioner Terry Holliday and KCTCS President Michael B. McCall signed a Dual Credit Memorandum of Understanding (MOU) that sought to provide secondary students with "a seamless path to postsecondary education while reducing student expense and time to credential attainment" (KCTCS and KDE, July 9, 2013). The agreement was designed according to "national standards for best practices for dual credit as outlined by the National Association of Concurrent Enrollment Partnerships (NACEP)" and aligned with the regional standards of the Southern Association of Colleges and Schools, Commission on Colleges (SACS-COC). Since the signing of the MOU, KDE, the Office of Career and Technical Education and KCTCS worked together to prepare a handbook to assist secondary and postsecondary partners in implementing this dual credit agreement. The handbook states the following:

- Dual Credit courses provide highly relevant and academically sound courses for secondary students, especially in areas of high-skill, highwage, and high-demand programs.
- Dual Credit programs add value to the junior and senior years of high school by enhancing the college- and career-readiness of secondary students.
- Dual Credit programs will increase student matriculation from high school to college.
- Dual Credit programs reduce the time and cost to attain a postsecondary credential.

 Dual Credit programs increase completion rates and decrease remediation rates for secondary and postsecondary students.¹¹

How Dual Credit Is Awarded

- College credit will be awarded for courses taken for dual credit with a KCTCS college upon the student's completion of the course requirements and will become part of the student's official college transcript. The award of college credit will be in compliance with appropriate accreditation standards for the KCTCS College.
- All KCTCS colleges will recognize credit awarded under this agreement as stated in KCTCS policy and according to accreditation requirements.
- College credit awarded pursuant to this agreement will be applied to KCTCS program requirements in an applicable postsecondary program that the KCTCS college is approved to offer.
- Each local KCTCS college will permit qualified dual credit students to enroll in a maximum of 12 credit hours per academic year. Exceptions above the 12 hour limit may be considered and approved by the Chief Academic Officer at the local KCTCS college based on the specific curriculum or program offered during the dual credit experience. In addition, exceptions may be allowed for dual credit students enrolled in Early or Middle Colleges.
- High school credit will also be awarded by the secondary school upon successful completion of the course. The award of high school credit will be in compliance with state standards.

Source: Dual Credit Memorandum of Understanding between the Kentucky Community and Technical College System and the Kentucky Department of Education, July 9, 2013. Under the MOU, "courses accepted for dual credit toward an undergraduate credential at KCTCS must be college-level course work relevant to the credential or degree sought and meet KCTCS college standards for content, quality, and rigor pursuant to the requirements of [SACS-COC]." Further, dual credit students "have the opportunity to earn a certificate, diploma, or degree once they transition to a KCTCS college. Students receive other career opportunities such as earning industry certifications and may transfer to a four-year postsecondary institution to complete a bachelor's degree."

Findings

At present, the promise inherent in the Dual Credit MOU has not been fully realized. SREB's findings suggest that the state has not fully implemented clear, well-developed optional career pathway programs of study that (1) begin early in high school, (2) combine a college-ready academic core with CT programs offered at state and local technical centers, (3) offer dual credits, industry credentials and work-based learning opportunities, and (4) vertically align with local community college programs leading to certificates, credentials, associate's degrees or higher and well-paying jobs. The potential to develop such pathways exists, but at present, the system is characterized by

fragmented programs offered by local institutions and organized according to their own unique conditions. Kentucky's high schools, technical centers, postsecondary institutions and industry partners must come together to standardize optional career pathway programs of study, unify the fragmentary components that currently comprise them and fill in any existing gaps. These gaps include the role of work-based learning and the creation of promotional materials that will help parents, counselors, students and industry leaders understand how optional career pathways can prepare students for both college and careers.

Dual Credit and Dual Enrollment

If more students are given the opportunity to earn college credit while in high school, technical centers' performance may improve. As Table 13 shows, SREB's senior survey results indicate significantly more students at the top-performing centers (44 percent) than at low-performing centers (27 percent) completed three or more courses for college credit. Table 14 shows 54 percent of students at high-performing centers completed a dual enrollment or concurrent enrollment class at their high school compared to 44 percent at low-performing centers.

Table 13: Percentage of Students at Technology Centers Completing Courses for College Credit by Performance Levels					
How many college courses will you have earned credit for by the time you graduate?	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)		
0	35	27	39		
1	15	13	16		
2	16	16	18		
3	11	13	10		
4	8	10	7		
5	15	21	10		

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Table 14: Percentage of Students Taking Dual-Enrollment, Joint-Enrolled or Concurrent Enrollment Classes by Performance Levels

Completed a dual-enrollment, joint-enrollment or concurrent-enrollment class at your high school	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
Yes	46	54	44
No	54	46	56

¹ Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

SREB's six institutional review visits found it is still unclear whether the state's dual credit policy will be implemented consistently across the state. A number of technical center directors expressed concerns about dual credit, especially regarding inconsistencies in implementation in some regions. Concerns raised included:

- Some community colleges have elected to decide annually which courses they will allow for dual credit: This makes it difficult for technical center and high school leaders and counselors to plan and promote dual credit options.
- Some community colleges have set college creditearning limits that are below the limit set by the state. For example, one technical center director stated, "more community colleges are placing their own restrictions on dual credit."
- One technical center director noted that two years ago, students earned 125 dual credits.

 But when KCTCS implemented a \$50 per class administration fee, students stopped enrolling. This director worked with KCTCS to create additional articulation agreements and articulated credits. Under this new agreement, students had to complete three credit hours at KCTCS before applying for the credits. Once they completed the class and filled out the related paperwork, they were awarded the credit without paying the \$50 fee.

 One technical center director said the community college serving her center requires that 70 percent of the students in the class meet college entrance requirements for any student to receive dual credit.

Technical center directors also acknowledged problems existed on their end in communicating the availability and benefits of dual credit. One director admitted his center was not doing an adequate job of working with students, parents and the community college to promote career pathway programs of study or to help students formulate individual programs leading from high school to postsecondary credentials, certificates and degrees.

Students' Post-High School Plans

As shown in Table 5 in Section II, 63 percent of all technical center students met state academic careerready benchmarks. This would seem to suggest many technical center graduates are ready for postsecondary studies, and indeed, SREB's senior survey results indicate most technical center students have gotten the word that postsecondary study is essential to their future success. As Table 15 shows, 75 percent of seniors who responded to the survey expressed an intention to pursue some form of postsecondary education and training. About 45 percent said that they planned to enroll in a four-year college or university; a total of 30 percent said that they planned to pursue some form of sub-baccalaureate education (i.e., 17 percent planned to enroll in a two-year community college, 11 percent planned to enroll in technical or business school and

two percent planned to enter an on-the-job training program). Note that fewer than one in five of all senior survey respondents (17 percent) reported planning to enroll in community college after graduation, compared to more than two in five (45 percent) reporting plans to enroll in a four-year college or university.

Table 15: Students' Stated Post-High School Plans by Performance Levels					
What is the one thing that will take the largest share of your time in the first year after you leave school?	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)		
Attending a four-year college or university	45	44	43		
Taking courses at a two-year or community college	17	20	17		
Taking courses at a technical or business school	11	10	11		
Working full-time	13	13	13		
Working part-time, but not attending school or college	3	2	3		
Working as an apprentice or in an on-the-job training program	2	3	2		
Full-time military service	5	4	5		
Being a homemaker	1	0	1		
Other	6	4	6		

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Table 16 further breaks out seniors' post-high school plans by gender. A high percentage — 89 percent — of young women who responded to the survey reported planning to pursue some form of postsecondary education (60 percent four-year college or university, 24 percent community college, 5 percent technical or business school). By comparison, just 61 percent of young men (34 percent four-year college or university, 13 percent community college, 14 technical or business school) reported planning to pursue some postsecondary education.

These wide discrepancies in students' stated posthigh school goals and plans — across all technical center students and across gender lines — **suggest there is a weak link between students' studies at their technical centers and further education and training.** In Kentucky, as across the nation as a whole, young men are not getting the message that optional career pathway programs of study can prepare them for a broad range of postsecondary educational options and also help them earn credentials that lead to greater earnings. An educational campaign is needed to help students — especially male students — see the connections between their high school CT studies and related programs at local community colleges, including dual credit-earning opportunities that can potentially save them money and shorten the time needed to earn a valuable credential or degree in a well-paying career field. Although it is important for all schools to create "postsecondary-going cultures," it is essential that technical centers and community colleges work together to foster postsecondary aspirations, especially for male students, and raise students' awareness of the excellent value offered by the state's community colleges.

Table 16: Students' Stated Post-High School Plans by Gender All Students Male Female What is the one thing that will take the largest share of your (n = 5,320)(n = 3,155)(n = 2,165)time in the first year after you leave school? (%) (%) (%) 45 60 Attending a four-year college or university 34 Taking courses at a two-year or community college 17 13 24 Taking courses at a technical or business school 5 11 14 Working full-time 13 19 5 3 2 Working part-time, but not attending school or college 3 Working as an apprentice or in an on-the-job training program 2 4 1 Full-time military service 5 7 1 Being a homemaker 1 () () Other 6 6 3

Source: 2013 TCTW Survey for Kentucky

Data collected during institutional review visits to six technical centers also revealed a high percentage of students were not planning to continue their education in the same career field they had studied in high school. Previous research on career pathway programs of study showed that a majority of high school students do not stay in the same program of study in college, but that participation in a program of study made students more motivated to remain in school and make informed choices about college and careers; further, the number of program of study courses taken in high school was significantly related to staying in the same Career Cluster in college and earning a college credential. 12 When offered before they enroll in a technical center program, intensive career counseling, career development and career exploration can result in students making more informed choices about the career pathway programs they choose to study.

Teachers' Perceptions of Their Role in Preparing Students for College and Careers

SREB's faculty survey probed CT teachers' perceptions of their role, as well as their centers' role, in preparing students for postsecondary study and careers. Perceptions about the mission of the technical centers varied greatly across high-performing and lowperforming centers. As Table 17 shows, a significantly higher percentage of teachers at high-performing centers perceived their centers' mission is to prepare students both for employment and continued study, and it is very important that students acquire the academic knowledge and skills necessary for success in postsecondary studies and careers. Further, significantly more teachers at high-performing centers compared to low-performing centers believed that it is very important that students be prepared to pass industry-recognized certification exams.

It is important to highlight the fact that only 61 percent of faculty strongly agreed that their school's goals and priorities are clear, and far less than half strongly agreed that the surrounding community (40 percent) and business and industry (44 percent) support their

programs. This lack of confidence clearly indicates that technical center leaders and teachers need to proactively reach out to their communities and business and industry to communicate the value of their programs to students and the wider community.

Table 17: Technical Center Teachers' Perceptions about Mission, Instruction and Accountability for Student Performance					
	All Centers ¹ (n = 80) (%)	High- Performing Centers (n = 26) (%)	Low- Performing Centers (n = 26) (%)		
Teachers believe it is very important to prepare all students with the academic knowledge and skills needed to be successful in postsecondary studies and/or careers.	71	81	68		
Teachers believe it is very important to help students master the content in English/language arts, mathematics and science courses needed to graduate from high school.	72	83	69		
Teachers believe it is very important to help students acquire the technical knowledge and skills needed to get a good job.	79	87	73		
Teachers believe it is very important to prepare all students for the dual objective of employment and further study.	72	83	67		
Teachers believe it is very important to develop students' abilities to solve problems and think critically.	73	81	69		
Teachers believe it is very important to ensure students earn a high school diploma.	82	86	81		
Teachers believe it is very important to prepare all students to pass an exam that will give them a credential that is valued by employers.	74	85	67		
Teachers strongly agree that the goals and priorities are clear at the technical center.	61	74	57		
Teachers strongly agree that the surrounding community actively supports our center's instructional goals.	40	51	33		

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Source: 2013 TCTW Survey for Kentucky

Recommendations:

 Hold joint regional meetings — electronically or face-to-face, convened by KDE and KCTCS — to explain the Dual Credit MOU and its intentions to local KCTCS leaders, school

Teachers strongly agree that local and regional businesses and

industries support improving the quality of our programs.

district personnel, technical center directors and high school counselors. These meetings will help ensure that local community colleges, school districts and technical centers interpret the MOU consistently.

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¹ Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

- Revise the dual credit fee structure and make it acceptable to all partners.
- Work across KDE, KCTCS, technical centers and home high schools to promote optional career pathway programs of study and dual credit and dual enrollment opportunities to students and parents, through:
 - □ Students' Individualized Learning Plans.
 - Promotional materials, jointly developed by industry representatives and technical center and home high school leaders, that connect high school career pathway programs of study with work-based learning and community college programs leading to credentials, certificates or associate's degrees and highskill, high-wage, high-demand jobs.
 - A jointly developed website that provides evidence of the benefits of completing career pathway programs of study linking high school and community college.
- Provide technical center directors with timely and accurate data on how many of their students are earning dual credits as well as how many credits they have earned.
- Ask technical center leaders and community leaders in each region to become more proactive in educating students and parents about the opportunities that center graduates have for continued study in their career field at local community colleges. This might include:
 - Helping students understand the long-term benefits associated with advanced training in their career fields.
 - Arranging field trips to the local community college to visit with teachers in programs related to students' career fields.

- □ Setting aside time during the school year for community college counselors to meet with groups of students or individual students to map out how dual credits earned in high school connect seamlessly with programs at the community college, save students money and shorten time to degree.
- Encouraging technical center directors and community college leaders to work with industry leaders to create a "learn and earn" program for technical center graduates moving on to the community college in their career pathway.
- Set a goal that the same numbers of male and female students will earn dual credits and pursue postsecondary studies. CT teachers at the technical centers can have a powerful influence on students' postsecondary aspirations and plans, but they will need development on the ways in which they can help achieve this goal. This is particularly important in the case of male students who currently comprise about 60 percent of the enrollment at the technical centers because their overall declining earnings and participation in the labor market have been linked to their comparative lack of postsecondary education and high-value credentials.

Section V: Implementation of Individualized Career Learning Plans

Research Question: Are students being placed in career pathway programs of study that align with their individual learning plans and regional and state economic sector needs?

Findings

SREB's institutional review visits and faculty and student survey data indicated that most students are not receiving the experiences, information and assistance needed to develop four- to six-year individualized learning plans (ILPs) in optional career pathway programs of study leading to industry certifications, further education and good jobs. Ideally, effective ILPs: (1) align with students' college and career goals, (2) outline non-duplicative sequences of CT courses and college-ready academic courses, beginning at the secondary level and extending to related postsecondary programs, and (3) identify potential job opportunities related to students' career pathway programs of study and link those jobs with postsecondary education and training, industry credentials and work-based learning experiences required for entry. As a core component of students' annual course enrollment and college and career planning activities, ILPs would be reviewed with students and their parents by a school counselor or a trained teacher adviser.

Institutional review visits to six technical centers revealed that most did not employ a consistent counseling for careers approach to help students prepare and revise their optional career pathway program ILPs and connect their interests and abilities to potential careers and related education and training options. Overall, ILPs are not being used effectively to help students plan optional career pathway programs of study that will prepare them for work, advanced training and college.

Students' Educational and Career Exploratory Experiences

SREB's senior survey data showed most technical center students were not experiencing a diverse range of educational and career exploratory activities that would allow them to gain a greater understanding of their interests, aspirations, abilities or the educational and career opportunities available to them. As Table 18 shows, across state and local centers, only:

- 26 percent of respondents reported attending a meeting at school with their parents to talk about their plans after high school graduation.
- 37 percent of respondents reported that a counselor or other adult helped them understand their skills, aptitudes and abilities and think about potential career goals.
- 21 percent participated in organized jobshadowing experiences.
- 35 percent attended a career fair.
- 37 percent visited a workplace to learn about careers.
- 26 percent took a career and educational exploratory class.

Most technical center students did not appear to have access to a set of educational and career exploratory experiences that would enable them to learn about careers and the educational pathways leading to those careers, or to learn about their own interests, aptitudes and abilities. Only 11 percent of surveyed seniors reported participating in the following three types of career exploratory experiences: (1) taking a career exploratory course, (2) working during high school, job-shadowing, or visiting a work site, and (3) receiving advisement on education and career planning with a counselor or with a parent and a teacher adviser.

Table 18: Students' Educational and Career Exploratory Experiences, by Performance Levels

	All Centers ¹ (n = 80) (%)	High- Performing Centers (n = 26) (%)	Low- Performing Centers (n = 26) (%)
A counselor or adult has helped me understand my strengths, skills, aptitudes and abilities.	37	38	33
A counselor or adult has helped me think about potential career goals.	42	43	38
I have spent time researching possible careers.	60	61	55
I know what jobs and careers will be in high demand.	53	54	49
I took a career and educational exploratory class.	26	28	25
I heard guest speakers talk about various careers.	63	64	62
I heard guest speakers talk about colleges.	72	74	69
I have visited a workplace to learn about what they do.	37	37	35
I answered questions about myself and was given information about good career options for me.	51	54	47
I participated in job shadowing.	21	21	20
I attended a career fair.	35	39	32
I attended a college fair.	53	53	52

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Students receiving *intensive* educational and career exploratory experiences participate in all three activities. Without such experiences, most students will not have the understanding or motivation to design and complete a challenging optional career pathway program of study.

As Table 19 shows, 12 percent more students experiencing intensive assistance with education and career planning reported that they were planning to attend a four-year college or university after graduating from high school. These data, in addition to those provided in Tables 15 and 16 in Section IV, suggest CT students are receiving little information about opportunities at their local community colleges. Home high schools, technical centers and community colleges must work together to increase the visibility

of community college staff at the high schools and technical centers in order to educate counselors, teachers, students and parents about the high-value programs offered on their campuses.

These student survey findings were consistent with teacher and student interviews at the six technical centers visited. Both teachers and students acknowledged students received little one-on-one educational and career advisement, unless initiated by the student. Students reported they received most of their help with their ILPs from their teachers. Students also noted their parents were not automatically involved in developing their ILPs, unless they requested an appointment with a counselor. Improving technical center performance will depend in part on enrolling students who have chosen to

attend the technical center because its programs relate to their stated educational and career goals and increase their aspirations to pursue advance training and postsecondary studies. This is especially important for male students.

Survey results and student interview data suggested many students are attending technical centers for the wrong reasons. Some have been placed by the local high school at the technical center and are taking courses that do not match their educational and career goals.

Table 19: Students' Stated Post-High School Plans						
What is the one thing that will take the largest share of your time in the first year after you leave school?	All Students (n = 5,397) (%)	Intensive Career Exploratory Experiences (n = 579) (%)	Other (n = 4,818) (%)			
Attending a four-year college or university	45	55	43			
Taking courses at a two-year or community college	17	13	17			
Taking courses at a technical or business school	10	10	10			
Working full-time	13	10	14			
Working part-time, but not attending school or college	2	1	3			
Working as an apprentice or in an on-the-job training program	3	3	2			
Full-time military service	5	5	5			
Other	5	3	5			

Source: 2013 TCTW Survey for Kentucky

Only about half of the seniors who responded to SREB's student survey strongly agreed that the CT courses taken at the center had successfully prepared them for a career or further education. Students reported that some students at the center were attending it as a place to hang out, not as a means of preparing them for their career goals. In focus groups, students talked about how students were being placed in programs at the center with little career and educational planning. For example, students in one local center complained that counselors were placing seniors in advanced CT courses for which they weren't prepared and in which they had little interest. These students described several problems with this process:

First, such "first-time" seniors slowed the pace of instruction and prevented those in the career pathway who were seeking a credential from receiving the attention and instructional rigor they needed to perform well on their certification exams.

- Second, such "first-time" seniors were filling up the class, preventing juniors with a serious interest from enrolling.
- Third, students felt these ill-placed seniors sometimes disrupted the learning environment.

Some counselors reported certain career pathways were being underutilized. Undersubscribed career pathways may be attributed to a number of possible causes: First, word has gotten out to students that a particular career pathway does not lead to employment or further training at the postsecondary level; second, a program has an ineffective teacher; or third, schools are using the program as a place to warehouse students rather than seeking to change the program, the teacher or both.

Recommendations:

- Provide students in grades eight, nine and 10 with a comprehensive set of educational and career exploratory experiences that will help them to make informed decisions about optional career pathway programs of study. These experiences include: participating in career exploratory CT classes in eighth or ninth grade, job shadowing at work sites and visiting technical centers, community colleges and other postsecondary institutions.
- Offer individualized career counseling to all students, provided by guidance counselors or a trained teacher mentor. Consideration should be given, where possible, to placing career counselors in the technical centers who will work with home high school counselors to provide career counseling to students and parents.
- Both the high schools and the technical centers need to actively engage parents in understanding the value of students becoming college and career ready and earning postsecondary credits and industry certifications while in high school.
- Advertise optional career pathway programs of study (i.e., those meeting the signature features described in Section I of this report) in printed materials and on the websites of local school districts, home high schools, technical centers and community colleges. Further, beginning with the middle grades, technical centers and community colleges should create informational materials for use during career counseling and course enrollment periods.

- Technical center leaders must do more to make the programs offered more attractive to students and parents. Strategies might include:
 - Securing the assistance of business and industry leaders in counseling technical center students regarding the career and postsecondary opportunities available to them. Business and industry partners can help students develop workplace-readiness skills by providing opportunities for students to participate in work-based learning.
 - Reorganizing technical center offerings to greatly broaden and modernize existing career pathway programs of study. A major barrier to providing students with multiple career pathway programs of study is the current "silo" configuration of most technical center program offerings. Many programs are designed to prepare single-skilled workers, whereas the modern workplace now seeks multi-skilled individuals with cross-disciplinary training.
 - Offering a one-period exploratory course at the center to ninth- or 10th-graders that would allow them to spend up to six weeks exploring each of six different career fields. In such a course, students would learn how to use related technology, complete a short project, learn about advanced training opportunities in a given field, test their interests and aptitudes and use these experiences as a basis for making an informed career pathway choice.
 - Explore ways of improving student persistence in a CTE pathway into advanced training or postsecondary studies. Business leaders, secondary educators and postsecondary faculty should help more students understand the additional educational opportunities that are connected to the career pathways they are studying in their technical centers.

- □ Offering advanced career programs that are aligned with emerging opportunities in the state and reflect new types of CT instruction. Many of these recommendations are outlined in Section I.
- ☐ Technical centers should partner with the home high schools and local community colleges or four-year colleges and universities to offer a two-week, full-day

summer STEM experience targeted to eighth-, ninth- and 10th-graders. The
Georgia Institute of Technology, for example,
offers middle grades and high school students
access to such an experience during the
summer that allows them to explore STEM
through a team project.

Section VI: Rigorous Assignments

Research Question: Is there a major difference across state and local technical centers in students' perceptions of the rigor of assignments they receive from their CT teachers?

Findings

Leaders at state and local technical centers are becoming more focused on meeting state college- and career-readiness standards. SREB's institutional review visits revealed most technical centers have revised their mission statements to focus on college and career readiness. Further, reviewed school improvement plans highlighted initiatives to increase the number of students meeting academic and technical career readiness standards. Since the passage of SB1 and the implementation of the state's new assessments, CT teachers appear to be taking greater ownership of their students' academic and technical preparation. However, the state has not yet established a coherent vision of 21st-century instruction that engages students in authentic, real-world assignments that require them to apply a broad range of cognitive, academic, technical,

technological and 21st-century skills to complete.

Students' Experiences with Rigorous Assignments

SREB's senior surveys asked students to report on the types of assignments they received in their CT courses; survey questions probed for evidence of the level of rigor of those assignments, based on a set of 10 indicators of rigor (see the Ten Indicators of Rigorous CT Assignments sidebar). SREB quantified the rigor of students' CT studies depending on the number of these indicators students reported experiencing: That is, their studies were considered intensive if they had experienced assignments that included seven to 10 of these indicators, *moderate* if they experienced three to six indicators and *low* if they experienced just zero to two of these indicators. As Table 20 shows, slightly more students at high-performing technical centers (32 percent) reported experiencing intensive CT assignments compared to students at low-performing centers (26 percent). However, at all centers for which SREB received survey data, just 30 percent of students reported experiencing assignments that required the application of cognitive, academic, technical, technological and 21st-century skills to complete.

Table 20: Variance across Centers in the Percentage of Students Reporting
Experiencing Rigorous Assignments, by Center Performance Levels

Rigorous CT Studies		All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
Intensive	7-10 indicators	30	32	26
Moderate	3-6 indicators	39	39	40
Low	0-2 indicators	31	28	34

¹ Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

If Kentucky's goal is for 90 percent of students at all of its centers to perceive their assignments as demanding and of high value, much work needs to be done.

Students' Experiences of Specific Indicators of Rigorous Assignments

Based on the data presented in Table 21, on average, 48 percent of students reported having assignments that required them to: (1) develop logical arguments to support the solution to a problem, (2) predict outcomes based on observations and information provided,

Ten Indicators of Rigorous CT Assignments

Rigorous CT assignments ask students to:

- 1. Predict outcomes based on observations or information provided.
- 2. Develop a logical argument for the solution to a problem or project.
- 3. Do background research for a problem or project, such as reading technical article(s), before developing a plan or solution.
- 4. Make inferences from information provided to develop a solution for a problem or project.
- 5. Use math to solve complex problems related to a career-technical area.
- 6. Apply academic knowledge and skills to a career-technical area.
- 7. Apply technical knowledge and skills to new situations.
- 8. Develop and test hypotheses.
- 9. Complete an extended project that requires planning, developing a solution or product and presenting the results orally or in writing.
- Use computer software or other technology related to a career-technical area to complete assignments at least weekly.

and (3) make inferences from information to develop solutions for a project or problem. These are the types of cognitive skills that 21st-century employers often say they need in the workplace.

Also on average, 54 percent of students reported having assignments that required them to: (1) apply their academic and technical knowledge and skills to complete assignments in new situations within their areas of study, (2) conduct background research, such as reading technical documents, before formulating a plan or solution, or (3) use math to solve a complex problem.

Just 38 percent of students, on average, reported developing and testing a hypothesis and using software or other technology to complete an extended project covering several days of class time.

CT students need to experience authentic, real-world assignments that require the application of academic, technical, cognitive and 21st-century skills. Survey results revealed that across state and local centers, CT assignments were not sufficiently rigorous and were not engaging CT students in authentic learning. SREB analyses showed that just 8 percent of all respondents reported having assignments that contained the following six indicators associated with intellectually demanding assignments:

- Do background research such as reading technical article(s) and manuals in order to complete assignments.
- Make inferences from information collected and make logical arguments for a proposed solution for a problem or a plan for completing the project assignment.
- Use high school-level math to complete the assignment.
- Learn and apply technical knowledge and skills to new situations.
- Use new computer software or technology to complete the assignment.
- Complete an extended project requiring planning, developing a solution and presenting the results orally and in writing.

Table 21: Percentage of Students Reporting Experiencing Indicators of Rigorous Assignments, by Center Performance Levels

Rigorous CT Studies Indicators	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
Predict outcomes based on observations or information provided.	53	55	51
Develop a logical argument for your solution to a problem or project.	46	47	44
Do background research for a problem or project, such as reading technical article(s), before developing a plan or solution.	50	50	51
Make inferences from information provided to develop a solution for a problem or project.	46	47	45
Use math to solve complex problems related to my career-technical area.	49	53	44
Apply academic knowledge and skills to my career-technical area.	59	61	54
Apply technical knowledge and skills to new situations.			
Develop and test hypotheses.	35	35	33
Complete an extended project that requires planning, developing a solution or product and presenting the results orally or in writing.	46	48	43
Used computer software or other technology related to your career-technical area to complete assignments weekly.	34	37	30

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Observations at the Technical Centers

The senior survey results described above were consistent with data collected during SREB's institutional review visits to six technical centers. Although review teams noted some outstanding examples of students being engaged in challenging and authentic assignments, such examples were the exception. Too often, students were disengaged, instruction was uninspired and procedurally focused, and the material being covered was insufficiently challenging. The review team observed students sitting passively at their desks. Teachers read aloud

from PowerPoint presentations rather than giving students a challenging, real-world assignment that would engage them in reading the technical materials needed to complete that assignment. Teachers were also seen reading to students from the textbook, with no student engagement. At present, it would appear CT teachers do not know how to move from procedurally based instruction to engaging students in challenging, multi-day assignments that require them to conduct background research and develop a work plan for completing assignments.

The institutional review team also noted that although most centers visited had an initiative to embed literacy and numeracy into CT classes, the literacy focus did not attempt to engage students in reading technical materials related to an assignment, and the level of numeracy was focused largely on middle grades math. During interviews, many teachers admitted that they did not have the skills needed to effectively incorporate math and literacy into more robust, real-world assignments. The instructional approaches observed reflected the worst of remedial academic instruction — teaching isolated academic skills disconnected from application.

Questioning techniques often used by teachers indicated they did not know how to ask questions to cause students to think more deeply about assignments and to take ownership of their learning.

Site team reviews of center-provided instructional and assessment materials revealed expectations for student assignments and assessments were at a low level. Most assessments were multiple-choice or fill-in-the-blank items. Although the rigor of assignments varied across different career pathways, in the main, CT teachers and leadership appeared to have failed to grasp that their students were capable of doing much more than is currently being expected of them. Although some teachers were assigning more comprehensive and challenging project assignments that require reading, writing and math to complete — for example, students in biomedical and health science classes were doing more reading, writing and research to complete their assignments — this was more the exception than the norm.

In interviews, some students indicated they were completing a major senior research and writing project with the assistance of outside business and industry partners. Students in early childhood reported creating digital storybooks and presenting their work to the class. Students in biomedical science were doing research on different types of cancer and preparing a written paper for their English and biomedical science instructors.

Teachers' Perceptions of the Rigor of Their Assignments

As shown in Table 22, critical differences exist in how teachers at high- and low-performing centers perceived the rigor of their assignments. First, significantly more teachers at high-performing centers than at low-performing centers reported requiring their students to:

- Read and interpret technical materials in completing assignments (86 percent vs. 68 percent)
- Demonstrate critical knowledge about technical and academic competencies to complete assignments (56 percent vs. 40 percent)

Second, significantly more teachers at highperforming centers than at low-performing centers strongly agreed that:

- They are encouraged to give challenging assignments (74 percent vs. 63 percent)
- Their center emphasizes academic skills in reading, mathematics and science that are embedded in assignments (65 percent vs. 57 percent)

However, as Table 21 shows, technical center students did not perceive that their assignments are as challenging as their teachers believed they are. For example, only 50 percent of the seniors who responded to the survey reported being required to read technical materials to complete assignments; compare this with the 76 percent reported by their teachers. Further, although 65 percent of all surveyed teachers strongly agreed that they are encouraged to give challenging assignments, just 30 percent of all surveyed seniors reported that their assignments offered an intensive level of rigor (see Table 19).

These conflicting data strongly suggest that center leaders and teachers are struggling to redefine what challenging assignments in CT classrooms look like — assignments that reflect the context of the workplace and require a more complex set of academic and technical knowledge and skills to complete.

Table 22: Teachers' Perceptions of the Rigor of Their Assignments, by Center Performance Levels

Perceptions of Rigor	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
Teachers require students to read and interpret technical books and manuals in carrying out assignments.	76	86	68
Teachers require students to demonstrate critical knowledge about technical and related academic competencies used to complete an assignment daily or weekly.	49	56	40
Teachers strongly agree that they are encouraged to give students challenging assignments.	65	74	63
Teachers strongly agree that their center emphasizes academic skills in reading, mathematics and science that are embedded in problems, projects and tasks students are assigned.	57	65	57

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Recommendations:

A world-class technical high school system demands that the assignments given to students by CT teachers change dramatically to reflect the requirements of the 21st-century workplace.

- Improve the quality of instruction in all technical centers by offering teachers and center leaders intensive training and experiences related to (1) the rapidly changing, increasingly complex requirements of the 21st-century workplace, and (2) constructing rigorous project-based learning assignments that challenge students to think and problem-solve. Instructional plans should engage students in using academic and technical skills and technology to complete assignments, often in the context of team learning.
- Provide CT teachers with intensive training on classroom practices and questioning techniques that help students take greater ownership of their learning.

- Give CT students complex, real-world assignments spanning several days that require them to:
 - Do background research to develop a plan of work and schedule for the assignment.
 - □ Develop a logical argument for their plan.
 - ☐ Learn to use new technology and software to complete the work.
 - □ Apply high school-level literacy and math knowledge and skills to complete.
 - □ Work effectively with a team.
 - □ Demonstrate problem-solving and creativity in the completion of work.
 - ☐ Take ownership of work rather than waiting on the teacher to give instructions.
 - □ Demonstrate time management skills.
 - □ Produce exemplary products or services.

- □ Demonstrate, on end-of-project exams, that they can read and comprehend related technical materials, do the math involved and demonstrate mastery of the related technology, software and technical content.
- Provide technical center leaders and teachers with external assistance and staff development to help them shift the culture of their centers away from 20th-century instructional models toward those required to prepare students for the 21st-century workplace. Make the following transitions:
 - ☐ From teacher-directed, procedurally based instruction to student-driven, project-based and problem-based assignments
 - ☐ From teacher-centered to teacher-facilitated, student-centered learning

- ☐ From knowing-it-all to giving assignments that may require students and teachers to learn together
- ☐ From having all of the answers to asking good questions that result in students finding the answers
- ☐ From preparing students who follow procedures to preparing students who can analyze an assignment and develop their own procedures

Section VII: Professional Development

Research Question: Do teachers believe that professional development opportunities allow them to stay current in their career content and to effectively integrate essential academic knowledge and skills into student assignments that meet the emerging trends of the workforce?

Research has shown that professional development that changes practices must be embedded in classrooms and occur over at least 40 hours for each major change sought (see How Teacher Professional Development Affects Student Achievement, in the sidebar).

Dramatically raising the quality of instruction at Kentucky's 95 technical centers from its current level to what will be needed to create a world-class system of technical high school centers will require a major investment in professional development. In order to prepare students with the cognitive, academic, technical, technological and 21st-century skills needed for the modern workplace, existing teachers will need intensive professional development on how to formulate rigorous, authentic assignments grounded in project-based learning.

New teachers entering the profession with a wealth of business and industry experience will need the support of a fast-track teacher induction system that will help them plan standards-based and project-based instruction, use research-based instructional strategies, assess students to promote learning and effectively manage their classrooms.

All teachers will need to foster an understanding of the math concepts that are essential to entering and advancing in careers and further study and embed these concepts into instruction and assignments. All teachers will also need to design assignments that engage students in doing research, conducting background reading and formulating related work plans to complete their assignments.

How Teacher Professional Development Affects Student Achievement

Yoon et al. (2007) examined nine controlled studies of professional development efforts to determine how much time is needed to make an impact. In general, the more time invested, the better results. Yoon and his colleagues noted that when efforts spanned less than 30 hours, they showed no significant effects on student learning. Efforts that ranged between 30 and 100 hours, at an average of 49 hours, showed positive and significant effects on student achievement. Yoon et al. also found that professional development efforts were also more effective if they were directly related to a teacher's practice, integrated with other school reform efforts and engaged teachers in collaborative communities.

Source: Kwang Suk Yoon, Teresa Duncan, Silvia Wen-Yu Lee,
Beth Scarloss, and Kathy L. Shapley. Reviewing the
Evidence on How Teacher Professional Development
Affects Student Achievement (Issues & Answers Report,
REL 2007- No. 033). U.S. Department of Education,
Institute of Education Sciences, National Center
for Education Evaluation and Regional Assistance,
Regional Educational Laboratory Southwest, 2007.

Overall, shifting the instructional cultures of the state's 95 technical centers will require leaders and teachers to adopt 21st-century teaching strategies that will prepare students for a 21st-century workplace. Boring drill techniques will not help more students meet the state's higher accountability requirements. Technical centers need to harness students' natural interests by engaging them in solving complex problems that allow them to see the connections between what they learn in their academic and technical classrooms and the real world of work.

Findings

SREB's faculty survey solicited information on teachers' professional development experiences over the past three years across five critical areas of teaching practice that will need to be addressed if the culture of teaching and learning at the technical centers is to change. These five areas include (1) using project-based learning in instruction and assignments, (2) embedding math content in CT assignments, (3) designing authentic assignments that require students to apply academic, technical and 21st-century skills, (4) constructing assignments that require students to do background research for a problem or project, such as reading technical materials, before developing a plan or solution, and (5) raising expectations for student performance. As Table 23 shows, only 10 percent of teachers reported they had received 40 or more hours of professional development on using project-based learning in instruction and assignments. Further:

- Just 5 percent reported that they had taken part in training on how to identify the math content needed in the workplace and embed that content in their CT assignments.
- Six percent participated in professional development focused on authentic assignments

- that require students to use math, literacy, problem-solving, technology, software and 21st-century skills to complete.
- Only 4 percent received training on how to help students conduct the research needed to complete an assignment, and just 7 percent participated in professional development on raising expectations.

Industry representatives interviewed as part of SREB's study said they want to hire multi-skilled individuals who are creative problem-solvers. They believed many CT programs are still too focused on teaching students to follow procedures and are failing to offer authentic assignments that motivate students to tackle complex projects that tap into students' natural interests and require them to apply a full range of academic, technical and workplace skills to complete.

In a focus group, superintendents recognized the importance of collaborating closely with technical centers to improve the quality of instruction and increase student academic and technical achievement, but they believed that technical center teachers and leaders had not received the training needed to forcefully address the college- and career-readiness standards that have become part of the state accountability system. This lack of preparation may be

Table 23: Percentage of Teachers Reporting Having Received 40 or More Hours of Professional Development on Critical Topics During the Past Three Years

Professional Development Topics	All Centers ¹ (n = 80) (%)
Using project-based learning in instruction and assignments	10
Understanding math content needed in workplace and embedding math in CT assignments	5
Designing authentic project assignments in my career field that will require students to use math, literacy, problem-solving, technology and software and 21st-century skills to complete	6
Constructing assignments that have students design and conduct research as part of an assignment in their career field	4
Raising expectations for student performance	7

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

attributed to several factors. For the past two decades, Kentucky's technical centers have not been part of the state's accountability system. As such, in the past, technical center leaders and teachers have not seen the need to change what or how they teach. Finally, because of declining levels of state and federal support in recent years, many technical centers have been compelled to eliminate professional development opportunities.

In interviews, both teachers and leaders at the technical centers admitted they had little or no indepth professional development on instructional strategies to integrate academics into their instruction and assignments. In lieu of embedding core literacy and math skills into their instruction and career-focused assignments, teachers described how they pulled academically deficient students out of their technical classes for 25-minute sessions of intensive academic instruction.

Recommendations:

- Provide intensive professional development to technical center teachers on how to design authentic, rigorous, project-based assignments in their career areas that require students to use math, literacy, problem-solving, technology, software and 21st-century skills to complete. Such training will need to include:
 - A major emphasis on helping CT teachers identify and embed essential math skills and concepts into planned lessons and authentic project-based assignments.
 - Assistance and instructional support related to helping students conduct background research for a problem or project before developing a plan or solution.
- Over a two-year period, embed this intensive professional development into the technical centers' daily work, emphasizing the highwage, high-skill, high-demand career pathways that are essential to the state of Kentucky. Years 1 and 2 would both include eight days of professional development in support of revising the curriculum. On some of these

- days, training will be provided on the features of project-based learning; other development will focus on creating rigorous assignments, using software effectively, developing students' cognitive abilities and applying 21st-century skills.
- Require all new, alternatively certified CT teachers entering the profession from business and industry to participate in the 15-month fast-track teacher induction program developed by SREB in conjunction with the NRCCTE. This professional development includes instructional planning, instructional strategies, classroom assessment and classroom management. It also includes learning how to integrate literacy and math content into classroom instruction and assignments. Training will commence with a two-week institute the summer before new teachers begin teaching and conclude the following summer, after their first year of teaching, with an additional two weeks of training. The program also includes school support in the form of a mentor for each participating teacher, guided principal support during the first year of teaching and three more weekends in which new teachers come together with other new teachers to focus on the next nine weeks of instruction.
- Teachers who have low student passing rates on certification exams and/or academic and technical standard assessments should also participate in the fast-track teacher induction program, following the same schedule as outlined above.
- Support technical center leaders and teachers in taking advantage of other national staff learning experiences, including the National Summer Staff Development Conference, sponsored by SREB, that is being held July 16 19, 2014, in Nashville, Tennessee. This conference will provide leaders and teachers with opportunities to learn what high-performing technology centers are doing to improve the quality of their programs.

Section VIII: Continuous Improvement

Research Question: Are there perceived differences among the faculty at state and local technical centers on whether their centers foster a culture of continuous improvement?

Through faculty surveys, document reviews, focus groups and interviews, SREB probed whether Kentucky's state and local technical centers fostered a culture of continuous improvement. Institutional review team members learned that the state centers shared a common mission statement that was developed as a state-wide project: "With high expectations and strong partnerships, Kentucky Tech will actively engage all students in the mastery of academic and technical skills needed to be ready for college and a career." In the case of the local centers, home high schools and center staff jointly developed their shared mission statements; most of these did focus on the dual purpose of preparing students for college and careers.

Findings

SREB has identified six key indicators that capture whether school leaders are fostering a culture of

continuous improvement in their schools. Leaders focused on continuous improvement:

- 1. Set clear school goals and priorities.
- 2. Support teachers in maintaining a demanding yet supportive environment that pushes students to do their best.
- Stress monthly that teachers should teach all students to the same high standards.
- Ensure that teachers are continually learning and seeking new ideas on how to improve achievement.
- Work with teachers in teams to improve student achievement.
- Ensure that teachers use data continuously to evaluate academic and technical programs and activities.

As Table 24 shows, faculty surveys indicated that more teachers at high-performing technical centers (57 percent) believed that their leaders maintained an intensive focus on continuous

Table 24: Faculty Perceptions of School Leaders' Focus on Continuous
Improvement by Center Performance Levels

Focus on Continuo	us Improvement	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
Intensive	4-6 indicators	47	57	43
Moderate	2-3 indicators	21	16	26
Low	0-1 indicators	18	12	18

Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

improvement compared to teachers at low- performing centers (43 percent). SREB defined an *intensive* focus on continuous improvement as including four to six of those indicators; a *moderate* focus as including two to three indicators; and a *low* focus as including either zero or one indicator.

Teachers' perceptions of the presence of individual indicators of a culture of continuous improvement were sharply varied across high- and low-performing centers. As Table 25 shows, differences were particularly significant for the following indicators:

- The goals and priorities for their schools are clear (74 percent vs. 57 percent).
- Teachers maintain a demanding yet supportive environment that pushes students to do their best (70 percent vs. 53 percent).

- Teachers are continually learning and acquiring new ideas on how to improve student achievement (68 percent vs. 54 percent).
- Teachers and school administrators work as a team to improve student achievement (70 percent vs. 54 percent).

During SREB's institutional review visits to six technical centers, review team members observed more intensive efforts to track individual student assessment results by school leaders at the high-performing centers than at low-performing centers. High-performing centers were using "data walls" that prominently recorded student assessment results in order to raise awareness of student achievement. Such centers were observed to be taking steps to upgrade student assignments as a means of helping students apply core academic skills to the completion of applied learning assignments.

Table 25: Faculty Perceptions of Indicators of Continuous Improvement by Center Performance Levels

Indicators of Continuous Improvement	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
They strongly agree that the goals and priorities for their school are clear.	61	74	57
They strongly agree teachers in their school maintain a demanding yet supportive environment that pushes students to do their best.	59	70	53
The principal stresses monthly that they should teach all students to the same high standards.	62	69	64
They strongly agree that teachers in their school are continually learning and seeking new ideas on how to improve student achievement.	60	68	54
They strongly agree that teachers and school administrators work as a team to improve student achievement in their school.	57	70	54
They strongly agree that teachers in their school use data continuously to evaluate the school's academic and technical programs and activities.	55	58	58

¹ Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

Institutional review visits also found little evidence of collaboration among teachers, in general or related specifically to improving the quality of assignments and embedding academic skills into instruction or assignments. Functionally at least, several of the centers SREB visited were still operating as "one-room schoolhouses" in which each occupational area was an entity unto itself. There is some evidence that this curricular isolation is prevalent in many of Kentucky's 95 technical centers.

Recommendations:

- Provide technical centers directors with professional development on how to work with their teachers on a series of "action-oriented" projects focused on improving curriculum and instruction so that more students meet career readiness goals. In "action-oriented" professional development, leaders work directly with their faculty to apply what they are learning. Center directors would not just learn about doing classroom observations, but participate in training that included classroom observations and providing feedback as a routine part of their work. Center directors should:
 - Conduct classroom observations and provide feedback to teachers that helps them improve the quality of assignments and assessment, classroom instruction, classroom management and student engagement in and ownership of their own learning.

- Be proactive in providing teachers with professional development that is focused on using instructional strategies to integrate higher-level academic content into project-based learning.
- □ Seek outside funding and resources to support the creation and maintenance of a culture of continuous improvement.
- Consider adopting selective leadership modules, like those offered by SREB, that all prospective technical center directors would complete to become effective instructional leaders. Each module requires the participant to identify a problem in their school, then to work with faculty to analyze the problem and develop and implement a solution. For example, a module on creating a culture of higher expectations would require the center director to engage faculty in determining the current level of expectations and planning how to engage students in meeting higher expectations.

Section IX: Advisory Committees

Research Question: Do all technical centers have advisory committees that participate in program reviews to ensure alignment with industry standards, expectations and trends?

Findings

Overall, SREB found many of Kentucky's 95 technical centers do not have an effective advisory committee structure. However, across state and local centers, teachers and leaders reported having advisory committees and described the kinds of activities these committees undertook. Eighty-six percent of teachers at high-performing centers and 69 percent of teachers at low-performing centers reported having participated in at least one annual meeting with employers and postsecondary faculty to set performance standards for completers. Half or more of the teachers at the high- and low-performing centers reported that advisory committees participated in the following activities:

- Providing input on the curriculum
- Providing feedback on the relevance of assignments

- Reviewing classroom assignments
- Reviewing student work
- Assisting with job-shadowing, project-based learning, apprenticeships and internships
- Analyzing equipment and supply needs and making recommendations

Although aware of the presence and involvement of advisory committees, teachers did not appear to believe that their external partners — community or business and industry — offered a great deal of support. This was true even at the high-performing centers. As Table 26 shows, just 51 percent of the teachers at high-performing centers strongly agreed that the surrounding community actively supported their center's goals, and only 52 percent strongly agreed that local and regional business and industry support was helping to improve the quality of their programs. At the low-performing centers, even fewer teachers agreed that they had the support of their community (33 percent) and business and industry partners (36 percent).

Table 26: Teacher Perceptions of Community and Industry Support of Center Goals, by Center Performance Levels			
Community and Industry Support	All Centers ¹ (n = 80) (%)	High-Performing Centers (n = 26) (%)	Low-Performing Centers (n = 26) (%)
Teachers strongly agree that the surrounding community actively supports our center's instructional goals.	40	51	33
Teachers strongly agree that local and regional businesses and industries support improving the quality of our programs.	44	52	36

¹ Out of a total of 95 centers, 15 local centers did not participate in the TCTW surveys. Out of the 80 remaining, 26 sites ranked in the top, 28 sites in the middle and 26 sites in the bottom.

Source: 2013 TCTW Survey for Kentucky

In focus groups, business and industry representatives agreed new policies and practices are needed to better connect business and industry to Kentucky's technical centers, and that such practices must be consistent across both state and local centers. They also said advisory committee members can help make CT instruction more relevant and challenging by interviewing students, examining assignments and assessments, listening to and critiquing student presentations and judging students' finished products.

Overall, the business and industry focus group recommended that industry serve as a change agent that will ensure innovation in the state's 95 technical centers. At present, as described in Section II and elsewhere in this report, industry representatives reported feeling frustrated by their lack of involvement in the state's CTE.

Recommendations:

- Ask all technical centers to establish a robust advisory committee charged with transforming the center into a high-performing technical center that offers rigorous instruction in career fields relevant to students, the region and the state. Although technical centers may also elect to continue employing program advisory committees, they may accomplish more in the immediate future with general advisory committees structured according to the recommendations below.
- Select advisory committee members who have a personal need to see the center improve. Two-thirds of the committee's members should be local and regional business and industry representatives who can employ graduates from one or more of the center's programs after high school graduation or offer additional postsecondary education and training.

With an industry representative serving as chair, other members of the committee would include:

- □ A representative from a local two- or fouryear college who is responsible for developing career pathway programs of study with area high schools;
- ☐ A high school principal, guidance counselor and academic teacher (English, math or science) from one or more of the center's sending home high schools;
- □ A parent with a son or daughter enrolled at the center:
- □ A district representative; and
- □ Others as needed, including CT teachers who are asked to attend as observers.
- Charge advisory committees with addressing at least two major issues annually. Advisory committees can:
 - Help more students meet state accountability goals for college and career readiness.
 - □ Provide work-based learning experiences that will allow students to learn contextually in real-world workplace settings.
 - □ Redesign or repurpose programs that are no longer effective.
 - □ Examine assignments given to students and the quality of student work to determine if they match workplace and postsecondary readiness standards.
 - Help more students recognize the opportunities available to them as they pursue their career fields, resulting in more students

 especially male students pursuing advanced training and postsecondary study.
 - Support center leaders and teachers in updating their skills to reflect changing workplace requirements and the need for postsecondary study.
 - ☐ Track the center's progress annually on state accountability performance indicators.

- Charge advisory committees with taking actions that will make each technical center a world-class educational institution and a place they would be pleased to send their children and grandchildren. Committees can help:
 - □ Find resources to upgrade facilities and

technology.

- Develop and implement a plan to enhance the visibility and value of the technical center in the community among parents, educators and the business community.
- Develop a set of experiences that will help students acquire habits of behavior and mind that will enhance their careers and personal lives.

■ Pilot a sector advisory committee in a high-demand field, like manufacturing, in one economic region of the state. Ask this committee to work with all technical centers in the region to develop and implement a plan to improve existing programs and offer new programs that more accurately reflect the increasingly demanding requirements of this industry sector.

Section X: Facilities

Research Question: Are technical center facilities safe, state-of-the-art and well-maintained so all students can master the full range of skills and competencies required?

Findings

Overall, the facilities visited by the SREB team were well-maintained, but some were older and in need of renovations. Some buildings, especially those built in the mid-1960s and early 1970s, were not equipped with classrooms in trade and industrial programs or had extremely limited space in both classroom and shop areas. Centers especially need to update their facilities and technology in order to provide instruction in new and emerging industries and occupations serving industry-driven workforce development needs. At present, according to one state official, "our career centers are not very responsive to the job market and sector strategies." Limited facilities — and limited budgets to upgrade related equipment and technology — meant that some programs were compelled to limit student enrollments, and others were unable to be launched. At one new center, additional space was needed to develop a new manufacturing program.

All centers were attempting to upgrade what they could, given the funds available to them. For example, one center converted a family and consumer science classroom into a culinary arts program. One school district bonded a \$3M renovation project to update its technical facilities.

However, institutional review visits, focus groups and interviews found that centers and programs were under-resourced. One state center director noted supply budgets had been cut more than 40 percent in the last five years and no equipment purchases with state funds had been made for the past eight years. Centers and programs reported not having adequate numbers of computers to serve students, or the funds

needed to keep up with software upgrades. One center's largest program, health science, had only one working hospital bed; the others were hand-cranked and not up to modern standards. At another center, students could not be trained on the newest car models because the auto tech program's alignment rack needed to be replaced.

Overall, despite increased interest in CTE in Kentucky, the state's technical centers appear to be struggling to maintain or expand programs due to limited federal, state and local funding. Institutional site review data strongly suggest that there is a budget discrepancy in how state and local technical centers are funded. Whereas local technical centers have more programs and have been able to sustain those programs even during the recession, many state centers, operating in isolation from their local districts, have more outdated programs and equipment.

If 80 percent of Kentucky CT students are to meet career readiness standards, fundamental changes must be made at the state, regional and district levels in how technical center needs are evaluated. This will require the creation of state, regional and district strategic plans to increase capacity, identify the action steps needed to make short- and long-term budget decisions, leverage federal funding opportunities, match resources — including financial and human support — to center need, and lay the foundation for their long-term success.

Recommendations:

The 2014 General Assembly should authorize and fund a study of the technical centers' financial needs and formulate recommendations for an equitable funding system for all 95 state and local centers.

The intent is to ensure that all 95 centers have 21st-century facilities, technology, career pathway programs and highly qualified teachers and leaders. An equitable system of funding should provide the same level of support to state and local centers for salaries, technology, instructional materials, and professional development for CTE programs,

teachers and administrators. It should also support the development of new or revised career pathway programs that will prepare students for new and emerging industries and occupations.

Endnotes

- 1 Local centers not participating included four centers in the Eastern Kentucky Concentrated Employment Program (EKCEP) region, three in the Ten Counties (TENCO) region, one in Northern Kentucky, one in the Cumberland region, two in the Barren River region and four in Greater Louisville (Jefferson County).
- 2 Kentucky Workforce Investment Board. Kentucky's Unbridled Future: Strategic Economic Development Plan, January 2012. See http://kwib. ky. gov/stateplan2012/AttachmentC.pdf.
- 3 These definitions of industry sectors are taken in part or in full from definitions developed by the U. S. Census Bureau in the North American Industry Classification System (NAICS) system. See http://www.census.gov/eos/www/naics/index.html.
- 4 EMSI and Maher & Maher. *Kentucky's Target Industry Sectors*, Kentucky Workforce Investment Board, May 2011. Unless otherwise stated, all job projection data cited in Section I come from this report and related materials prepared by EMSI and Maher & Maher for KWIB. Projections are for the period 2010 to 2018. See http://www.kysectorstrategies.com/resources/report-kentuckys-target-sector-initiative and http://www.kysectorstrategies.com/resources/category/know-your-region for more information.
- 5 This figure is a modified version of one presented in *Beyond the Books: A Look at Career & Technical Education Realizing Postsecondary & Career Readiness through Pathways TN*, a presentation made by Danielle Mezera, Assistant Commissioner, Career and Technical Education, Tennessee Department of Education, at the SREB Commission on CTE meeting held in Frankfort, KY, on December 9-10, 2013.

- 6 See http://naf. org/files/page/2009/06/AOF_ OneSheet. pdf.
- 7 NRCCTE Curriculum Integration Workgroup. Capitalizing on Context: Curriculum Integration in Career and Technical Education, National Research Center for Career and Technical Education, University of Louisville, 2010.
- 8 Measuring Technical and Academic Achievement: Employer/Certification Examinations' Role in High School Assessment, Southern Regional Education Board, 2009.
- 9 W. Norton Grubb and Jeannie Oakes. *Restoring Value to the High School Diploma: The Rhetoric and Practice of Higher Standards*. Educational and the Public Interest Center, Arizona State University and Educational Policy Research Unit, University of Colorado at Boulder, 2007.
- 10 Anthony P. Carnevale, Andrew R. Hanson, and Artem Gulish. Failure to Launch: Structural Shift and the New Lost Generation. Georgetown University, Georgetown Public Policy Institute, Center on Education and the Workforce, 2013.
- 11 p. 4, Kentucky Community and Technical College System. Dual Credit Handbook for the implementation of the Kentucky Department of Education, Office of Career and Technical Education and Kentucky Community and Technical College System Memorandum of Understanding, 2012-2013.
- 12 Corinne Alfeld and Sharika Bhattacharya. *Mature Programs of Study: Examining Policy Implementation at the Local Level.* National

 Research Center for Career and Technical

 Education, University of Louisville, 2013.

Appendix A

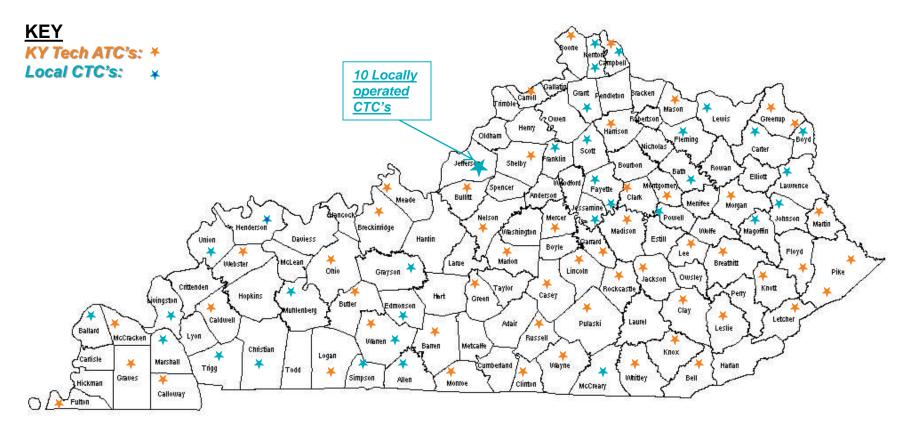
High Demand Industry Sectors, Top Occupations, and Gap Analysis

Data based on JobsEQ Projected Job Openings

District Pathway Offerings based on 2015-2016 data

KCTCS Pathway Offerings based on 2015-2016 data

Office of Career and Technical Education 53 KY Tech Area Technology Centers 42 Locally Operated Career and Technical Centers



Office of Career and Technical Education Kentucky Department of Education



Business & IT Services Construction This sector comprises professional and financial services, information technology, wholesale trade, and scientific and technical occupations. Accountants and Auditors Accountants and Auditors Accountants and Auditors Carpenters Personal Care Aides Nursing Assistants Nursing Assistants Machinet Maintenance Specialist Heavyres Painters, Construction and Maintenance Childcare Workers Power Systems Analysts Software Developers, Applications Supervisors of Construction and Extraction Workers General and Operations Managers Customer's Service Representatives Cargo and Freight Agents Cargo and Physicians and Surgeons, All Other Medical Secretaries Equipment Operators Medical Secretaries Equipment Service Representatives Cargo and Preight Agents Bus Drivers Bus Drivers Bus Drivers Bus Drivers Physicians and Muditance services and storage, and those to or coordinate the distribution activities over coordinate the distribution activities or coordinate the distribution	Kentucky High-Demand Industry Sectors and Top Occupations		
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Software Developers, Applications Plumbers, Pipefitters, and Steamfitters Medical Assistants Medical Assistants Medical Assistants Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors General and Operations Managers General Office Clerks Heating, Air Conditioning, and Refrigeration Mechanics and Installers Civil Engineers Operating Engineers and Other Construction Equipment Operators Medical Assistants	H k		
Computer Systems Analysts Supervisors of Construction and Extraction Workers General and Operations Managers General Office Clerks Healthcare Managers General Office Clerks Healthcare Managers Social Workers First-Line Supervisors of Production and Operating Workers Civil Engineers Operating Engineers and Other Construction Equipment Operators Licensed Practical and Licensed Vocational Nurses Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Captains, Mates, and Pilots of Water Vocational Nurses Manufacturing Managers Cargo and Freight Agents	i ,		
Computer Systems Analysts Supervisors of Construction and Extraction Workers General and Operations Managers General Office Clerks Civil Engineers Computer Systems Analysts Supervisors of Construction and Extraction Workers Licensed Practical and Licensed Vocational Nurses Licensed Practical and Licensed Vocational Nurses Licensed Practical and Licensed Vocational Nurses Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors Postal Service Mail Carriers Social Workers First-Line Supervisors of Production and Operating Workers Civil Engineers Operating Engineers and Other Construction Equipment Operators Medical Secretaries Manufacturing Managers Cargo and Freight Agents	g		
General Office Clerks Heating, Air Conditioning, and Refrigeration Mechanics and Installers Civil Engineers Operating Engineers and Other Construction Equipment Operators Medical Secretaries Medical Secretaries Medical Secretaries First-Line Supervisors of Production and Operating Workers Corgo and Freight Agents Cargo and Freight Agents	h		
Civil Engineers Operating Engineers and Other Construction Equipment Operators Operato			
C Equipment Operators	essels		
Customer Service Representatives General and Operations Managers Physicians and Surgeons. All Other Engineers - Design Bus Drivers	M s		
	d k		
Software Developers, Systems Software Electrical Power-Line Installers and Repairers Physical Therapists Sales Representatives, Wholesale and Manufacturing, Except Police, Fire, and A Except Technical and Scientific Products	nbulance i d		
Sales Representatives Cost Estimators Dental Assistants Food Batchmakers General and Operations Managers			
Paralegals and Legal Assistants Roofers Social and Human Service Assistants Production, Planning, and Expediting Clerks Bus and Truck Mechanics and Diesel E	gine e		
Computer User Support Specialists Cement Masons and Concrete Finishers Emergency Medical Technicians and Paramedics Farm Products Purchasing Agents, Except Wholesale, Retail, and Farm Products Sailors and Marine Oilers			
Market Research Analysts and Marketing Specialists Heavy and Tractor-Trailer Truck Drivers First-Line Supervisors of Office and Administrative Support Workers Shipping, Receiving, and Traffic Clerks Maintenance and Repair Workers, General Control of the Supervisors of Office and Administrative Support Workers	eral		
Mechanical Engineers Welders, Cutters, Solderers, and Brazers Nurse Practitioners Heavy and Tractor-Trailer Truck Drivers Aircraft Mechanics and Service Technic	ans S		
Veterinary Technologists and Technicians Sheet Metal Workers Medical Records and Health Information Technicians Slaughterers and Meat Packers Machine Feeders and Offbearers	L k		
Tax Preparers Telecommunications Line Installers and Repairers Mental Health Counselors Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	on Managers W I		
Computer and Information Systems Managers Brickmasons and Blockmasons Medical and Clinical Laboratory Technologists Meat, Poultry, and Fish Cutters and Trimmers Airline Pilots, Copilots, and Flight Engin	eers		
Photographers First-Line Supervisors of Mechanics, Installers, and Repairers Family and General Practitioners Metal-Refining Furnace Operators and Tenders Travel Clerks	Agents and		
*Top 20 Occupations based on the Forecasted Number of Growth and Replacement job openings over the next 5 years. Occupations not industry specific were removed.			
Support Sectors			
Retail Trade Educational Services Public Administration Government Accomodation and Food Se	vices		
Agriculture (West Region) Entrepreneurship Media and Visual Arts (West Region) Energy			

KENTUCKY'S HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

State (167 Districts Participating in CTE)

Advanced Manufacturing

Engineers - Design

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Automotive Engineering/Automotive Maintenance and Light Repair, Computer Numerical Control (CNC) Programmer, Electrical Engineering, Engineering & Technology Design, Fluid Power Mechanic, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Mechanical Designer, Project Lead the Way (PLTW) - Engineering, Robotics & Automation

136 District(s) have Access to Pathways which Lead to this Occupation

81.4% of Districts in State

175 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Woodford County

Engineers - Process/Manufacturing

Aligned Pathways

Electrical Engineering, Engineering & Technology Design, Manufacturing Engineering Technology Technician, Project Lead the Way (PLTW) - Engineering, Robotics & Automation

86 District(s) have Access to Pathways which Lead to this Occupation

51.5% of Districts in State

100 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Ashland Independent, Bardstown Independent, Barren County, Berea Independent, Boone County, Boyd County, Boyle County, Breathitt County, Bullitt County, Campbell County, Carroll County, Casey County, Christian County, Clark County, Clay County, Corbin Independent, Cumberland County, Danville Independent, Daviess County, Elizabethtown Independent, Elliott County, Fairview Independent, Fayette County, Fleming County, Fort Thomas Independent, Franklin County, Gallatin County, Glasgow Independent, Grant County, Graves County, Hancock County, Hardin County, Harrison County, Henderson County, Henry County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, Laurel County, Lawrence County, Lee County, Lewis County, Lincoln County, Logan County, Madison County, Marion County, Mason County, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Middlesboro Independent, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nicholas County, Oldham County, Owen County, Owensboro Independent, Pendleton County, Perry County, Pike County, Pulaski County, Raceland Independent, Rockcastle County, Rowan County, Russell County, Russell Independent, Scott County, Shelby County, Spencer County, Taylor County, Trigg County, Trimble County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Woodford County

Advanced Manufacturing

Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic

Aligned Pathways

Computer Numerical Control (CNC)
Operator, Computer Numerical
Control (CNC) Programmer,
Machinist Operator, Machinist
Technician, Maintenance Mechanic,
Manufacturing Engineering
Technology Technician,
Manufacturing TRACK, Mechanical
Designer

76 District(s) have Access to Pathways which Lead to this Occupation

45.5% of Districts in State

48 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Ashland Independent, Augusta Independent, Barren County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Bracken County, Breckinridge County, Calloway County, Campbellsville Independen, Carlisle County, Carroll County, Casey County, Caverna Independent, Christian County, Clark County, Cloverport Independent, Danville Independent, Daviess County, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Gallatin County, Garrard County, Glasgow Independent, Graves County, Grayson County, Green County, Hancock County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Jefferson County, Kenton County, Kentucky School for the D, Lincoln County, Logan County, Madison County, Marion County, Mason County, Mayfield Independent, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Murray Independent, Nicholas County, Ohio County, Owen County, Owensboro Independent, Paris Independent, Pike County, Powell County, Robertson County, Rowan County, Russell County, Russellville Independent, Shelby County, Spencer County, Taylor County, Todd County, Trimble County, Union County, Walton-Verona Independent, Washington County, Wayne County, Webster County, Woodford County

First-Line Supervisors of Production and Operating Workers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Business Management, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Management Entrepreneurship, Manufacturing Engineering Technology Technician, Manufacturing TRACK

142 District(s) have Access to Pathways which Lead to this Occupation

85% of Districts in State

188 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russellville Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Wolfe County, Woodford County

Food Batchmakers	
Aligned Pathways Agribiotechnology Systems, Food Science and Processing Systems 17 District(s) have Access to Pathways which Lead to this Occupation	Adair County, Anderson County, Barren County, Burgin Independent, Christian County, Daviess County, Fayette County, Graves County, Hardin County, Jessamine County, Kenton County, LaRue County, Morgan County, Nelson County, Scott County, Spencer County, Walton-Verona Independent
10.2% of Districts in State	
18 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school may serve more than one district)	

Advanced Manufacturing

Heavy and Tractor-Trailer Truck Drivers

Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences

85 District(s) have Access to Pathways which Lead to this Occupation

50.9% of Districts in State

Aligned Pathways

90 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Allen County, Ballard County, Barren County, Bath County, Beechwood Independent, Boone County, Bourbon County, Boyle County, Bracken County, Bullitt County, Butler County, Caldwell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clinton County, Crittenden County, Daviess County, Edmonson County, Erlanger-Elsmere Independ, Fayette County, Fleming County, Gallatin County, Garrard County, Graves County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knox County, LaRue County, Laurel County, Lawrence County, Letcher County, Lewis County, Lincoln County, Livingston County, Lyon County, Madison County, Marshall County, McCracken County, McLean County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Perry County, Pulaski County, Rockcastle County, Rowan County, Scott County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Webster County, Whitley County, Woodford County

Inspectors, Testers, Sorters, Samplers, and Weighers

Aligned Pathways

Automated Wood Processer, Cabinetmaker, Combination Arc Welder, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Fluid Power Mechanic, Furniture Maker, Gas Metal Arc Welder, Industrial Maintenance Electrical Technician, **Industrial Maintenance Welding** Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Refrigeration Technician, Retail/Wholesaling, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level

147 District(s) have Access to Pathways which Lead to this Occupation

88% of Districts in State

111 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Kenton County, Kentucky School for the D, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Machine Maintenance Specialist

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Fluid Power Mechanic, Gas Metal Arc Welder, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer, Sheet Metal Technician, Shielded Metal Arc Welder, Welder -Entry Level, Welding Pipefitters **TRACK**

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

168 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Machine Tool Operator

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Computer
Numerical Control (CNC) Operator,
Computer Numerical Control (CNC)
Programmer, Machinist Operator,
Machinist Technician, Maintenance
Mechanic, Manufacturing
Engineering Technology Technician,
Manufacturing TRACK, Mechanical
Designer

114 District(s) have Access to Pathways which Lead to this Occupation

68.3% of Districts in State

125 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clinton County, Cloverport Independent, Crittenden County, Danville Independent, Daviess County, Edmonson County, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fleming County, Gallatin County, Garrard County, Glasgow Independent, Graves County, Grayson County, Green County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Paris Independent, Perry County, Pike County, Powell County, Pulaski County, Robertson County, Rockcastle County, Rowan County, Russell County, Russellville Independent, Scott County, Shelby County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, **Woodford County**

Machinist

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Computer
Numerical Control (CNC) Operator,
Computer Numerical Control (CNC)
Programmer, Machinist Operator,
Machinist Technician, Manufacturing
Engineering Technology Technician,
Manufacturing TRACK, Mechanical
Designer, Sheet Metal Technician

113 District(s) have Access to Pathways which Lead to this Occupation

67.7% of Districts in State

118 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clinton County, Cloverport Independent, Crittenden County, Danville Independent, Daviess County, Edmonson County, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fleming County, Gallatin County, Garrard County, Glasgow Independent, Graves County, Grayson County, Green County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Paris Independent, Perry County, Pike County, Pulaski County, Robertson County, Rockcastle County, Rowan County, Russell County, Russellville Independent, Scott County, Shelby County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Woodford County

Manufacturing Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Hospitality Services, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

162 District(s) have Access to Pathways which Lead to this Occupation

97% of Districts in State

234 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Williamstown Independent, Wolfe County, **Woodford County**

Manufacturing Operator/Technician

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Automated Wood
Processer, Cabinetmaker, Computer
Numerical Control (CNC) Operator,
Computer Numerical Control (CNC)
Programmer, Fluid Power Mechanic,
Furniture Maker, Industrial
Maintenance Electrical Technician,
Machinist Operator, Machinist
Technician, Maintenance Machinist,
Maintenance Mechanic,
Manufacturing Engineering
Technology Technician,
Manufacturing TRACK, Sheet Metal
Technician, Welder - Entry Level

144 District(s) have Access to Pathways which Lead to this Occupation

86.2% of Districts in State

166 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Meat, Poultry, and Fish Cutters and Trimmers

Aligned Pathways

Agribiotechnology Systems, Animal Science Systems, Food Science and Processing Systems

104 District(s) have Access to Pathways which Lead to this Occupation

62.3% of Districts in State

123 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ballard County, Barren County, Bath County, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clinton County, Crittenden County, Cumberland County, Daviess County, Edmonson County, Elliott County, Fayette County, Fleming County, Franklin County, Fulton County, Gallatin County, Garrard County, Grant County, Graves County, Grayson County, Green County, Greenup County, Hardin County, Harrison County, Hart County, Henderson County, Henry County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lawrence County, Lincoln County, Livingston County, Logan County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, McCracken County, Meade County, Menifee County, Mercer County, Metcalfe County, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owsley County, Pendleton County, Powell County, Pulaski County, Robertson County, Rockcastle County, Rowan County, Russell County, Scott County, Shelby County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Williamstown Independent, Woodford County

Advanced Manufacturing

Metal-Refining Furnace Operators and Tenders

Aligned Pathways

Sheet Metal Technician

5 District(s) have Access to Pathways which Lead to this Occupation

3% of Districts in State

1 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Beechwood Independent, Boone County, Erlanger-Elsmere Independ, Kenton County, Walton-Verona Independent

Production, Planning, and Expediting Clerks

Aligned Pathways

Administrative Support, Business Management, Global Logistics, Management Entrepreneurship, Marketing, Retail/Wholesaling

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

212 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Wayne County, Webster County, Whitley County, Wolfe County, **Woodford County**

Purchasing Agents, Except Wholesale, Retail, and Farm Products	
Aligned Pathways	Allen County, Fayette County, Harlan County, Henderson County, Knox
Retail/Wholesaling	County, Mercer County, Pulaski County, Taylor County, Wayne County
9 District(s) have Access to Pathways	
which Lead to this Occupation	
5.4% of Districts in State	
12 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school	
may serve more than one district)	

Advanced Manufacturing

Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific	
Products	
Aligned Pathways	Adair County, Allen County, Ballard County, Barren County, Berea
Agribusiness Systems, Marketing,	Independent, Boone County, Bourbon County, Bowling Green Independ
Retail/Wholesaling	Boyd County, Boyle County, Bracken County, Bullitt County, Burgin

83 District(s) have Access to Pathways which Lead to this Occupation

49.7% of Districts in State

100 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

dent. Independent, Caldwell County, Campbell County, Campbellsville Independen, Carter County, Casey County, Christian County, Clark County, Danville Independent, Edmonson County, Estill County, Fairview Independent, Fayette County, Fleming County, Franklin County, Gallatin County, Glasgow Independent, Graves County, Grayson County, Green County, Hancock County, Hardin County, Harlan County, Harrison County, Henderson County, Hopkins County, Jefferson County, Jessamine County, Knox County, Laurel County, Lee County, Lewis County, Lincoln County, Livingston County, Logan County, Madison County, Marion County, Marshall County, Mason County, McCracken County, McCreary County, Meade County, Mercer County, Metcalfe County, Middlesboro Independent, Montgomery County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Ohio County, Oldham County, Owensboro Independent, Pendleton County, Perry County, Pulaski County, Russell County, Scott County, Simpson County, Somerset Independent, Spencer County, Taylor County, Trigg County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Wolfe County, Woodford County

Shipping, Receiving, and Traffic Clerks

Aligned Pathways

Agribusiness Systems, Business Management, Retail/Wholesaling

115 District(s) have Access to Pathways which Lead to this Occupation

68.9% of Districts in State

144 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Ashland Independent, Ballard County, Barren County, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Burgin Independent, Caldwell County, Campbell County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Daviess County, Dawson Springs Independen, Elizabethtown Independent, Eminence Independent, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Letcher County, Lewis County, Lincoln County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McLean County, Meade County, Mercer County, Metcalfe County, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Rowan County, Russell County, Scott County, Shelby County, Somerset Independent, Spencer County, Taylor County, Todd County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Wolfe County, Woodford County

Slaughterers and Meat Packers

Aligned Pathways

Agribiotechnology Systems, Animal Science Systems, Culinary & Food Services, Food Science and Processing Systems

125 District(s) have Access to Pathways which Lead to this Occupation

74.9% of Districts in State

156 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Ballard County, Barren County, Bath County, Beechwood Independent, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Corbin Independent, Crittenden County, Cumberland County, Daviess County, Dawson Springs Independen, Edmonson County, Elizabethtown Independent, Elliott County, Fayette County, Fleming County, Fort Thomas Independent, Franklin County, Fulton County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lawrence County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, McCracken County, Meade County, Menifee County, Mercer County, Metcalfe County, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owsley County, Paris Independent, Pendleton County, Perry County, Pike County, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russellville Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamstown Independent, Wolfe County, **Woodford County**

Welders

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Combination Arc
Welder, Gas Metal Arc Welder,
Manufacturing TRACK, Sheet Metal
Technician, Shielded Metal Arc
Welder, Welder - Entry Level,
Welding Engineering, Welding
Pipefitters TRACK

147 District(s) have Access to Pathways which Lead to this Occupation

88% of Districts in State

153 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Business and IT Services

Accountants and Auditors	
Aligned Pathways	Adair County, Ashland Independent, Ballard County, Bardstown Independent,
Accounting, Finance	Barren County, Bath County, Beechwood Independent, Berea Independent,
86 District(s) have Access to	Boone County, Bowling Green Independent, Boyd County, Boyle County,
Pathways which Lead to this	Bracken County, Bullitt County, Butler County, Caldwell County, Calloway
Occupation	County, Campbell County, Carlisle County, Carter County, Casey County,
51.5% of Districts in State	Christian County, Clark County, Clay County, Corbin Independent, Daviess
99 School(s) Offer Pathways which	County, Elizabethtown Independent, Estill County, Fayette County, Fleming
Lead to this Occupation (Note: A school	County, Floyd County, Franklin County, Fulton Independent, Gallatin County,
may serve more than one district)	Garrard County, Glasgow Independent, Grant County, Graves County,
	Hancock County, Hardin County, Hart County, Henderson County, Henry
	County, Hopkins County, Jackson County, Jefferson County, Johnson County,
	Kenton County, Knox County, LaRue County, Laurel County, Lawrence County,
	Leslie County, Lewis County, Lincoln County, Logan County, Madison County,
	Marshall County, Mason County, Mayfield Independent, McCracken County,
	McCreary County, Meade County, Menifee County, Montgomery County,
	Muhlenberg County, Murray Independent, Nelson County, Newport
	Independent, Owensboro Independent, Paducah Independent, Pendleton
	County, Perry County, Pike County, Powell County, Pulaski County, Raceland
	Independent, Rowan County, Russellville Independent, Somerset
	Independent, Taylor County, Todd County, Union County, Warren County,

Wayne County, Williamsburg Independent

Business and IT Services

Civil Engineers

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Civil Architecture
& Construction Technology, Civil
Designer, Computer Numerical
Control (CNC) Operator, Computer
Numerical Control (CNC)
Programmer, Project Lead the Way
(PLTW) - Engineering

108 District(s) have Access to Pathways which Lead to this Occupation

64.7% of Districts in State

132 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ballard County, Bardstown Independent, Barren County, Bath County, Berea Independent, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Crittenden County, Danville Independent, Daviess County, Edmonson County, Elizabethtown Independent, Elliott County, Estill County, Fairview Independent, Fayette County, Fleming County, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Hancock County, Hardin County, Harrison County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Lewis County, Lincoln County, Livingston County, Lyon County, Madison County, Marion County, Marshall County, Mason County, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Paducah Independent, Perry County, Pulaski County, Raceland Independent, Rockcastle County, Rowan County, Russell County, Russell Independent, Scott County, Shelby County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Warren County, Webster County, Whitley County, Williamsburg Independent, **Woodford County**

Business and IT Services

Computer and Information Systems Managers

Aligned Pathways

Informatics, Information Support and Services, Network Security

73 District(s) have Access to Pathways which Lead to this Occupation

43.7% of Districts in State

52 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Anderson County, Barren County, Bath County, Bell County, Boone County, Bourbon County, Breckinridge County, Campbellsville Independen, Carroll County, Carter County, Caverna Independent, Christian County, Clark County, Clay County, Cloverport Independent, Covington Independent, Danville Independent, Daviess County, Elliott County, Eminence Independent, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knott County, LaRue County, Leslie County, Lincoln County, Logan County, Magoffin County, Marion County, Marshall County, Mason County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Montgomery County, Morgan County, Nicholas County, Ohio County, Owen County, Paris Independent, Pike County, Pikeville Independent, Pineville Independent, Powell County, Rockcastle County, Rowan County, Russellville Independent, Shelby County, Spencer County, Todd County, Trigg County, Trimble County, Union County, Washington County

Business and IT Services

	business and it services
Computer Systems Analysts	
Aligned Pathways	Anderson County, Barren County, Bath County, Bell County, Boone County,
Informatics, Information Support and	Bourbon County, Breckinridge County, Campbellsville Independen, Carroll
Services	County, Carter County, Caverna Independent, Christian County, Clark County,
70 District(s) have Access to	Clay County, Cloverport Independent, Covington Independent, Danville
Pathways which Lead to this	Independent, Daviess County, Elliott County, Eminence Independent, Fulton
Occupation	County, Fulton Independent, Gallatin County, Garrard County, Glasgow
41.9% of Districts in State	Independent, Grant County, Hancock County, Harlan County, Harrison
49 School(s) Offer Pathways which	County, Hart County, Henry County, Hickman County, Hopkins County,
Lead to this Occupation (Note: A school	Jefferson County, Jessamine County, Johnson County, Kenton County,
may serve more than one district)	Kentucky School for the D, Knott County, LaRue County, Lincoln County,
	Logan County, Magoffin County, Marion County, Marshall County, Mason
	County, Menifee County, Mercer County, Metcalfe County, Middlesboro
	Independent, Montgomery County, Morgan County, Nicholas County, Ohio
	County, Owen County, Paris Independent, Pike County, Pikeville Independent,
	Pineville Independent, Powell County, Rockcastle County, Rowan County,
	Russellville Independent, Shelby County, Spencer County, Todd County, Trigg

County, Trimble County, Union County, Washington County

Computer User Support Specialists

Aligned Pathways

Business Multimedia, Information Processing, Information Support and Services

119 District(s) have Access to Pathways which Lead to this Occupation

71.3% of Districts in State

137 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyle County, Breckinridge County, Bullitt County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Cloverport Independent, Covington Independent, Crittenden County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Estill County, Floyd County, Fulton County, Fulton Independent, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Montgomery County, Morgan County, Murray Independent, Nicholas County, Ohio County, Owen County, Owsley County, Paducah Independent, Paintsville Independent, Paris Independent, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Rockcastle County, Rowan County, Russellville Independent, Shelby County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Whitley County, Wolfe County, Woodford County

Customer Service Representatives

Aligned Pathways

Administrative Support, Agribusiness Systems, Financial Services (Marketing), Hospitality Services, Information Processing, Information Support and Services, Marketing, Retail/Wholesaling

157 District(s) have Access to Pathways which Lead to this Occupation

94% of Districts in State

224 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamstown Independent, Wolfe County, Woodford County

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, **Industrial Maintenance Electrical** Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance **Carpenter Assistant**

161 District(s) have Access to Pathways which Lead to this Occupation

96.4% of Districts in State

229 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

General Office Clerks

Aligned Pathways

Administrative Support, Agribusiness Systems, Information Processing

138 District(s) have Access to Pathways which Lead to this Occupation

82.6% of Districts in State

178 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Berea Independent, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton Independent, Gallatin County, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, Meade County, Menifee County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Pendleton County, Perry County, Pike County, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Wolfe County, Woodford County

Business and IT Services

Lawyers	
Aligned Pathways	Jefferson County, Scott County
Pre-Law Studies	
2 District(s) have Access to Pathways	
which Lead to this Occupation	
1.2% of Districts in State	
3 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school	
may serve more than one district)	

Management Analysts

Aligned Pathways

Accounting, Agribusiness Systems, Business Management, Management Entrepreneurship

128 District(s) have Access to Pathways which Lead to this Occupation

76.6% of Districts in State

161 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Ballard County, Bardstown Independent, Barren County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Daviess County, Dawson Springs Independen, Elizabethtown Independent, Eminence Independent, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Green County, Greenup County, Hancock County, Hardin County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Logan County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Metcalfe County, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Rowan County, Russell County, Russellville Independent, Scott County, Shelby County, Somerset Independent, Spencer County, Taylor County, Todd County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Wolfe County, Woodford County

Managers, All Other

Aligned Pathways

Accounting, Agribusiness Systems, Business Management, Finance, Hospitality Services, Management Entrepreneurship, Retail/Wholesaling

135 District(s) have Access to Pathways which Lead to this Occupation

80.8% of Districts in State

180 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Ballard County, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Daviess County, Dawson Springs Independen, Elizabethtown Independent, Eminence Independent, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Logan County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Rowan County, Russell County, Russellville Independent, Scott County, Shelby County, Somerset Independent, Spencer County, Taylor County, Todd County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Williamsburg Independent, Williamstown Independent, Wolfe County, Woodford County

Market Research Analysts and Marketing Specialists

Aligned Pathways

Advertising, Agribusiness Systems, Business Management, E-Commerce, Marketing

132 District(s) have Access to Pathways which Lead to this Occupation

79% of Districts in State

170 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Ballard County, Barren County, Bell County, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Burgin Independent, Caldwell County, Campbell County, Campbellsville Independen, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Edmonson County, Elizabethtown Independent, Eminence Independent, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Rowan County, Russell County, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Wolfe County, Woodford County

Mechanical Engineers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Automotive Engineering/Automotive Maintenance and Light Repair, Computer Numerical Control (CNC) Programmer, Electrical Engineering, Engineering & Technology Design, Fluid Power Mechanic, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Mechanical Designer, Project Lead the Way (PLTW) - Engineering, Robotics & Automation

136 District(s) have Access to Pathways which Lead to this Occupation

81.4% of Districts in State

175 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Woodford County

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	Carter County, Jefferson County, Knox County, Leslie County, Scott County
Legal Office, Pre-Law Studies	
5 District(s) have Access to Pathways	
which Lead to this Occupation	
3% of Districts in State	
6 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school	
may serve more than one district)	

Photographers	
Aligned Pathways	Adair County, Calloway County, Corbin Independent, Graves County, Hardin
Cinematography and Video	County, Jefferson County, Kenton County, Scott County
Production	
8 District(s) have Access to Pathways	
which Lead to this Occupation	
4.8% of Districts in State	
12 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school	
may serve more than one district)	

Business and IT Services

Sales Representatives	
Aligned Pathways	Adair County, Allen County, Ballard County, Barren County, Berea
Agribusiness Systems, Marketing,	Independent, Boone County, Bourbon County, Bowling Green Independent,
Retail/Wholesaling	Boyd County, Boyle County, Bracken County, Bullitt County, Burgin
83 District(s) have Access to	Independent, Caldwell County, Campbell County, Campbellsville Independen,
Pathways which Lead to this	Carter County, Casey County, Christian County, Clark County, Danville
Occupation	Independent, Edmonson County, Estill County, Fairview Independent, Fayette
49.7% of Districts in State	County, Fleming County, Franklin County, Gallatin County, Glasgow
100 School(s) Offer Pathways which	Independent, Graves County, Grayson County, Green County, Hancock
Lead to this Occupation (Note: A school	County, Hardin County, Harlan County, Harrison County, Henderson County,
may serve more than one district)	Hopkins County, Jefferson County, Jessamine County, Knox County, Laurel
	County, Lee County, Lewis County, Lincoln County, Livingston County, Logan
	County, Madison County, Marion County, Marshall County, Mason County,
	McCracken County, McCreary County, Meade County, Mercer County,
	Metcalfe County, Middlesboro Independent, Montgomery County,
	Muhlenberg County, Murray Independent, Nelson County, Newport
	Independent, Ohio County, Oldham County, Owensboro Independent,
	Pendleton County, Perry County, Pulaski County, Russell County, Scott
	County, Simpson County, Somerset Independent, Spencer County, Taylor
	County, Trigg County, Walton-Verona Independent, Warren County,
	Washington County, Wayne County, Webster County, Whitley County, Wolfe
	County, Woodford County

Software Developers, Applications

Aligned Pathways

Computer Programming, Computer Science, Digital Design and Game Development, Web Development/Administration

88 District(s) have Access to Pathways which Lead to this Occupation

52.7% of Districts in State

73 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Carroll County, Carter County, Christian County, Clay County, Cloverport Independent, Crittenden County, Daviess County, Dawson Springs Independen, Edmonson County, Elliott County, Eminence Independent, Fairview Independent, Fayette County, Fleming County, Floyd County, Franklin County, Gallatin County, Grant County, Graves County, Greenup County, Hancock County, Harlan County, Harrison County, Hazard Independent, Henderson County, Henry County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lee County, Leslie County, Livingston County, Lyon County, Madison County, Marion County, Martin County, Mason County, McCracken County, Menifee County, Metcalfe County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Paducah Independent, Paintsville Independent, Paris Independent, Perry County, Pike County, Pikeville Independent, Pulaski County, Raceland Independent, Rockcastle County, Rowan County, Russell County, Russell Independent, Shelby County, Simpson County, Spencer County, Trigg County, Trimble County, Warren County, Washington County, Whitley County, Wolfe County

Business and IT Services

Software Developers, Systems Software

Aligned Pathways

Computer Programming, Computer Science, Digital Design and Game Development, Network Security, Web Development/Administration

89 District(s) have Access to Pathways which Lead to this Occupation

53.3% of Districts in State

74 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Carroll County, Carter County, Christian County, Clay County, Cloverport Independent, Crittenden County, Daviess County, Dawson Springs Independen, Edmonson County, Elliott County, Eminence Independent, Fairview Independent, Fayette County, Fleming County, Floyd County, Franklin County, Gallatin County, Grant County, Graves County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hazard Independent, Henderson County, Henry County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lee County, Leslie County, Livingston County, Lyon County, Madison County, Marion County, Martin County, Mason County, McCracken County, Menifee County, Metcalfe County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Paducah Independent, Paintsville Independent, Paris Independent, Perry County, Pike County, Pikeville Independent, Pulaski County, Raceland Independent, Rockcastle County, Rowan County, Russell County, Russell Independent, Shelby County, Simpson County, Spencer County, Trigg County, Trimble County, Warren County, Washington County, Whitley County, Wolfe County

Tax	Prepa	arers
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Aligned Pathways

Accounting, Finance

86 District(s) have Access to Pathways which Lead to this Occupation

51.5% of Districts in State

99 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Ashland Independent, Ballard County, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Berea Independent, Boone County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carter County, Casey County, Christian County, Clark County, Clay County, Corbin Independent, Daviess County, Elizabethtown Independent, Estill County, Fayette County, Fleming County, Floyd County, Franklin County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Hancock County, Hardin County, Hart County, Henderson County, Henry County, Hopkins County, Jackson County, Jefferson County, Johnson County, Kenton County, Knox County, LaRue County, Laurel County, Lawrence County, Leslie County, Lewis County, Lincoln County, Logan County, Madison County, Marshall County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Montgomery County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Owensboro Independent, Paducah Independent, Pendleton County, Perry County, Pike County, Powell County, Pulaski County, Raceland Independent, Rowan County, Russellville Independent, Somerset Independent, Taylor County, Todd County, Union County, Warren County, Wayne County, Williamsburg Independent

Veterinary Technologists and Technicians

Aligned Pathways

Agribiotechnology Systems, Animal Science Systems, Veterinary Assistant

104 District(s) have Access to Pathways which Lead to this Occupation

62.3% of Districts in State

125 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ballard County, Barren County, Bath County, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clinton County, Crittenden County, Cumberland County, Daviess County, Edmonson County, Elliott County, Fayette County, Fleming County, Franklin County, Fulton County, Gallatin County, Garrard County, Grant County, Graves County, Grayson County, Green County, Greenup County, Hardin County, Harrison County, Hart County, Henderson County, Henry County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lawrence County, Lincoln County, Livingston County, Logan County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, McCracken County, Meade County, Menifee County, Mercer County, Metcalfe County, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owsley County, Pendleton County, Powell County, Pulaski County, Robertson County, Rockcastle County, Rowan County, Russell County, Scott County, Shelby County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Williamstown Independent, Woodford County

Brickmasons and Blockmasons	
Aligned Pathways	Bellevue Independent, Bullitt County, Campbell County, Dayton Independent,
Bricklayer Assistant, Mason	Fort Thomas Independent, Jefferson County, Pendleton County, Silver Grove
Apprentice	Independent, Simpson County
9 District(s) have Access to Pathways	
which Lead to this Occupation	
5.4% of Districts in State	
4 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school may serve more than one district)	

Construction

Carpenters

Aligned Pathways

Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Residential Carpenter Assistant, Residential Maintenance Carpenter Assistant

112 District(s) have Access to Pathways which Lead to this Occupation

67.1% of Districts in State

63 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Anderson County, Ashland Independent, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Bell County, Bellevue Independent, Berea Independent, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Caverna Independent, Clark County, Clay County, Clinton County, Cloverport Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Estill County, Fayette County, Floyd County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Graves County, Grayson County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Jackson County, Jackson Independent, Jefferson County, Johnson County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Pike County, Pineville Independent, Powell County, Pulaski County, Rowan County, Russell County, Shelby County, Silver Grove Independent, Somerset Independent, Trigg County, Trimble County, Warren County, Washington County, Wayne County, Wolfe County

Cement Masons and Concrete Finishers	
Aligned Pathways	Adair County, Bellevue Independent, Bullitt County, Campbell County, Dayton
Bricklayer Assistant, Construction	Independent, Fort Thomas Independent, Jefferson County, Pendleton County,
Forms Assistant, Mason Apprentice	Russell County, Silver Grove Independent, Simpson County
11 District(s) have Access to	
Pathways which Lead to this	
Occupation	
6.6% of Districts in State	
5 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school	
may serve more than one district)	

Construction Laborers

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Bricklayer
Assistant, Carpenter Assistant,
Carpentry-TRACK, Construction
Forms Assistant, ConstructionElectrical-TRACK, Electrician
Assistant, Environmental Control
System Servicer Assistant, Industrial
Electrician Assistant, Mason
Apprentice, Plumber Assistant,
Refrigeration Mechanic, Residential
Carpenter Assistant, Residential
Electrician, Residential Maintenance
Carpenter Assistant

155 District(s) have Access to Pathways which Lead to this Occupation

92.8% of Districts in State

156 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Construction Managers

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Bricklayer
Assistant, Carpenter Assistant,
Carpentry-TRACK, Construction
Forms Assistant, ConstructionElectrical-TRACK, Electrician
Assistant, Environmental Control
System Servicer Assistant, Industrial
Electrician Assistant, Mason
Apprentice, Plumber Assistant,
Refrigeration Mechanic, Residential
Carpenter Assistant, Residential
Electrician, Residential Maintenance
Carpenter Assistant

155 District(s) have Access to Pathways which Lead to this Occupation

92.8% of Districts in State

156 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Cost Estimators

Aligned Pathways

Architectural Designer, Automated Wood Processer, Bricklayer Assistant, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Civil Designer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Furniture Maker, Industrial Electrician Assistant, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

144 District(s) have Access to Pathways which Lead to this Occupation

86.2% of Districts in State

85 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Floyd County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Jackson County, Jackson Independent, Jefferson County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Whitley County, Williamsburg Independent, Wolfe County

Electrical Power-Line Installers and Repairers	
Aligned Pathways	Adair County, Anderson County, Augusta Independent, Barbourville
Electrical Engineering, Electrician	Independent, Barren County, Bracken County, Breathitt County, Bullitt
Assistant	County, Caldwell County, Carroll County, Casey County, Caverna Independent,
64 District(s) have Access to	Christian County, Corbin Independent, Crittenden County, Daviess County,
Pathways which Lead to this	Dawson Springs Independen, Elizabethtown Independent, Fairview
Occupation	Independent, Fayette County, Floyd County, Gallatin County, Glasgow
38.3% of Districts in State	Independent, Grant County, Greenup County, Harlan County, Harlan
33 School(s) Offer Pathways which	Independent, Hart County, Henderson County, Henry County, Jackson
Lead to this Occupation (Note: A school	Independent, Knox County, Laurel County, Lee County, Leslie County, Letcher
may serve more than one district)	County, Logan County, Lyon County, Magoffin County, Martin County, Mason
	County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe

Construction

Electricians

Aligned Pathways

Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Industrial Electrician Assistant, Residential Electrician

89 District(s) have Access to Pathways which Lead to this Occupation

53.3% of Districts in State

43 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Anderson County, Augusta Independent, Barbourville Independent, Barren County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Boyle County, Bracken County, Breathitt County, Bullitt County, Caldwell County, Campbell County, Carlisle County, Carroll County, Casey County, Caverna Independent, Christian County, Corbin Independent, Crittenden County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Floyd County, Fort Thomas Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Greenup County, Harlan County, Harlan Independent, Hart County, Henderson County, Henry County, Jackson Independent, Jefferson County, Kenton County, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Lincoln County, Logan County, Lyon County, Madison County, Magoffin County, Martin County, Mason County, Mayfield Independent, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Muhlenberg County, Ohio County, Owen County, Owensboro Independent, Owsley County, Pendleton County, Pike County, Pikeville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Silver Grove Independent, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Whitley County, Williamsburg Independent, Wolfe County

County, Ohio County, Owen County, Owensboro Independent, Owsley

Whitley County, Williamsburg Independent, Wolfe County

County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Todd County, Trigg County, Trimble County, Union County,

First-Line Supervisors of Mechanics, Installers, and Repairers

Aligned Pathways

Diesel Brake Repairer/Basic Automotive Electricity, Diesel Brake Repairer/Special Problems Option, Diesel Engine/ElectricianTechnician/ Preventative Maintenance Option, Diesel

Engine/ElectricianTechnician/Basic Automotive Electricity Option, Diesel Front End Mechanic/Special Problems Option, Electrician Assistant, Industrial Electrician Assistant

75 District(s) have Access to Pathways which Lead to this Occupation

44.9% of Districts in State

39 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Anderson County, Augusta Independent, Barbourville Independent, Barren County, Beechwood Independent, Bellevue Independent, Boone County, Bracken County, Breathitt County, Bullitt County, Caldwell County, Campbell County, Casey County, Caverna Independent, Christian County, Corbin Independent, Crittenden County, Daviess County, Dawson Springs Independen, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Fairview Independent, Fayette County, Floyd County, Fort Thomas Independent, Glasgow Independent, Grant County, Greenup County, Hancock County, Harlan County, Harlan Independent, Hart County, Henderson County, Jackson Independent, Kenton County, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Logan County, Lyon County, Magoffin County, Martin County, Mason County, McLean County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Muhlenberg County, Ohio County, Owensboro Independent, Owsley County, Pendleton County, Pike County, Pikeville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Silver Grove Independent, Todd County, Trigg County, Union County, Walton-Verona Independent, Whitley County, Williamsburg Independent, Wolfe County

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, **Industrial Maintenance Electrical** Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance **Carpenter Assistant**

161 District(s) have Access to Pathways which Lead to this Occupation

96.4% of Districts in State

229 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Aligned Pathways

Electrical Engineering, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Industrial Maintenance Electrical Technician, Maintenance Mechanic, Refrigeration Mechanic, Refrigeration Technician

60 District(s) have Access to Pathways which Lead to this Occupation

35.9% of Districts in State

31 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Ballard County, Bardstown Independent, Barren County, Bourbon County, Boyle County, Butler County, Campbellsville Independen, Carroll County, Caverna Independent, Clark County, Clinton County, Cumberland County, Danville Independent, Daviess County, Eminence Independent, Fairview Independent, Fayette County, Floyd County, Gallatin County, Garrard County, Glasgow Independent, Green County, Hancock County, Harrison County, Hart County, Henry County, Jefferson County, Kenton County, Laurel County, Letcher County, Lincoln County, Logan County, Marion County, Mason County, Meade County, Montgomery County, Nelson County, Nicholas County, Owen County, Owensboro Independent, Paris Independent, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Russell County, Russell Independent, Spencer County, Taylor County, Todd County, Trimble County, Union County, Washington County

Construction

Heavy and Tractor-Trailer Truck Drivers

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Diesel Brake
Repairer/Basic Automotive
Electricity, Diesel
Engine/ElectricianTechnician/Basic
Automotive Electricity Option, Heavy
Equipment Sciences

85 District(s) have Access to Pathways which Lead to this Occupation

50.9% of Districts in State

90 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Allen County, Ballard County, Barren County, Bath County, Beechwood Independent, Boone County, Bourbon County, Boyle County, Bracken County, Bullitt County, Butler County, Caldwell County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clinton County, Crittenden County, Daviess County, Edmonson County, Erlanger-Elsmere Independ, Fayette County, Fleming County, Gallatin County, Garrard County, Graves County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knox County, LaRue County, Laurel County, Lawrence County, Letcher County, Lewis County, Lincoln County, Livingston County, Lyon County, Madison County, Marshall County, McCracken County, McLean County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Perry County, Pulaski County, Rockcastle County, Rowan County, Scott County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Webster County, Whitley County, Woodford County

Operating Engineers and Other Construction Equipment Operators	
Aligned Pathways	Allen County, Ballard County, Barren County, Bath County, Bourbon County,
Agricultural Power, Structural,	Boyle County, Bracken County, Bullitt County, Butler County, Caldwell County,
Technical Systems, Heavy Equipment	Carlisle County, Carroll County, Carter County, Casey County, Christian
Sciences	County, Clark County, Clinton County, Crittenden County, Daviess County,
79 District(s) have Access to	Edmonson County, Fayette County, Fleming County, Gallatin County, Garrard
Pathways which Lead to this	County, Graves County, Hancock County, Hardin County, Harlan County,
Occupation	Harlan Independent, Harrison County, Henderson County, Henry County,
47.3% of Districts in State	Hickman County, Hopkins County, Jefferson County, Jessamine County,
88 School(s) Offer Pathways which	Johnson County, Knox County, LaRue County, Laurel County, Lawrence
Lead to this Occupation (Note: A school	County, Lewis County, Lincoln County, Livingston County, Lyon County,
may serve more than one district)	Madison County, Marshall County, McCracken County, McLean County,
	Menifee County, Mercer County, Metcalfe County, Middlesboro Independent,
	Monroe County, Montgomery County, Morgan County, Muhlenberg County,
	Nelson County, Nicholas County, Ohio County, Oldham County, Owen County,
	Owensboro Independent, Perry County, Pulaski County, Rockcastle County,
	Rowan County, Scott County, Simpson County, Spencer County, Taylor
	County, Todd County, Trigg County, Trimble County, Union County, Warren
	County, Webster County, Whitley County, Woodford County

Construction

Painters, Construction and Maintenance	
Aligned Pathways	Knott County
Residential Maintenance Carpenter	
Assistant	
1 District(s) have Access to Pathways	
which Lead to this Occupation	
0.6% of Districts in State	
1 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school may serve more than one district)	

Plumbers, Pipefitters, and Steamfitters

Aligned Pathways

Combination Arc Welder, Environmental Control System Servicer Assistant, Gas Metal Arc Welder, Natural Gas Pipeline, Plumber Assistant, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

138 District(s) have Access to Pathways which Lead to this Occupation

82.6% of Districts in State

80 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Kenton County, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Murray Independent, Nelson County, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Pike County, Pikeville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Silver Grove Independent, Simpson County, Somerset Independent, Taylor County, Todd County, Trigg County, Trimble County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, **Wolfe County**

Roofers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Residential Carpenter Assistant, Residential Maintenance Carpenter Assistant

138 District(s) have Access to Pathways which Lead to this Occupation

82.6% of Districts in State

143 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Bell County, Bellevue Independent, Berea Independent, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Graves County, Grayson County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pineville Independent, Powell County, Pulaski County, Rockcastle County, Rowan County, Russell County, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Warren County, Washington County, Wayne County, Webster County, Whitley County, Wolfe County, Woodford County

Sheet Metal Workers

Aligned Pathways

Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering

136 District(s) have Access to Pathways which Lead to this Occupation

81.4% of Districts in State

78 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Kenton County, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Murray Independent, Nelson County, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Pike County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Silver Grove Independent, Simpson County, Somerset Independent, Taylor County, Todd County, Trigg County, Trimble County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County

Supervisors of Construction and Extraction Workers

Aligned Pathways

Agricultural Power, Structural,
Technical Systems, Carpenter
Assistant, Carpentry-TRACK,
Construction Forms Assistant,
Construction-Electrical-TRACK,
Electrician Assistant, Environmental
Control System Servicer Assistant,
Industrial Electrician Assistant,
Plumber Assistant, Refrigeration
Mechanic, Residential Carpenter
Assistant, Residential Electrician,
Residential Maintenance Carpenter
Assistant

155 District(s) have Access to Pathways which Lead to this Occupation

92.8% of Districts in State

156 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Telecommunications Line Installers and Repairers		
Aligned Pathways	Adair County, Anderson County, Augusta Independent, Barbourville	
Electrical Engineering, Electrician	Independent, Barren County, Bracken County, Breathitt County, Bullitt	
Assistant	County, Caldwell County, Carroll County, Casey County, Caverna Independent,	
64 District(s) have Access to	Christian County, Corbin Independent, Crittenden County, Daviess County,	
Pathways which Lead to this	Dawson Springs Independen, Elizabethtown Independent, Fairview	
Occupation	Independent, Fayette County, Floyd County, Gallatin County, Glasgow	
38.3% of Districts in State	Independent, Grant County, Greenup County, Harlan County, Harlan	
33 School(s) Offer Pathways which	Independent, Hart County, Henderson County, Henry County, Jackson	
Lead to this Occupation (Note: A school	Independent, Knox County, Laurel County, Lee County, Leslie County, Letcher	
may serve more than one district)	County, Logan County, Lyon County, Magoffin County, Martin County, Mason	
	County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe	
	County, Ohio County, Owen County, Owensboro Independent, Owsley	
	County, Pulaski County, Raceland Independent, Robertson County, Rockcastle	
	County, Rowan County, Russell County, Russell Independent, Russellville	
	Independent, Todd County, Trigg County, Trimble County, Union County,	
	Whitley County, Williamsburg Independent, Wolfe County	

Welders, Cutters, Solderers, and Brazers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

147 District(s) have Access to Pathways which Lead to this Occupation

88% of Districts in State

153 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Allen County, Anderson County, Ashland Independent, Augusta Independent,	
Bardstown Independent, Barren County, Bath County, Berea Independent,	
Boone County, Bourbon County, Boyd County, Boyle County, Breathitt	
County, Bullitt County, Burgin Independent, Butler County, Caldwell County,	
Campbell County, Carter County, Casey County, Caverna Independent,	
Christian County, Clark County, Clay County, Clinton County, Crittenden	
County, Daviess County, Elizabethtown Independent, Fayette County, Fleming	
County, Fort Thomas Independent, Franklin County, Grant County, Graves	
County, Grayson County, Green County, Hardin County, Harrison County, Hart	
County, Henderson County, Jackson County, Jefferson County, Jessamine	
County, Johnson County, Knox County, Laurel County, Letcher County, Lincoln	
County, Livingston County, Logan County, Madison County, Marion County,	
Marshall County, Mason County, McCracken County, McLean County, Meade	
County, Mercer County, Monroe County, Morgan County, Muhlenberg	
County, Newport Independent, Nicholas County, Ohio County, Owensboro	
Independent, Paducah Independent, Pendleton County, Perry County, Powell	
County, Pulaski County, Rockcastle County, Rowan County, Scott County,	
Shelby County, Simpson County, Spencer County, Taylor County, Todd	
County, Trigg County, Warren County, Washington County, Wayne County,	

Healthcare

Webster County

Dental Assistants	
Aligned Pathways	Adair County, Allen County, Ashland Independent, Augusta Independent,
Allied Health, Dental Technology	Ballard County, Bardstown Independent, Barren County, Bath County, Berea
87 District(s) have Access to	Independent, Bourbon County, Bowling Green Independent, Boyd County,
Pathways which Lead to this	Bracken County, Breckinridge County, Bullitt County, Carroll County, Casey
Occupation	County, Caverna Independent, Christian County, Clinton County, Corbin
52.1% of Districts in State	Independent, Covington Independent, Cumberland County, Daviess County,
65 School(s) Offer Pathways which	Edmonson County, Eminence Independent, Estill County, Fayette County,
Lead to this Occupation (Note: A school	Fleming County, Floyd County, Franklin County, Gallatin County, Glasgow
may serve more than one district)	Independent, Grant County, Grayson County, Hancock County, Hardin
	County, Harrison County, Hart County, Henderson County, Henry County,
	Hopkins County, Jackson County, Jefferson County, Jessamine County,
	Johnson County, Lee County, Lewis County, Madison County, Magoffin
	County, Marion County, Marshall County, Mason County, McCracken County,
	McCreary County, McLean County, Muhlenberg County, Nelson County,
	Nicholas County, Ohio County, Oldham County, Owen County, Owensboro
	Independent, Owsley County, Paducah Independent, Paris Independent,
	Perry County, Powell County, Pulaski County, Robertson County, Rockcastle
	County, Russell County, Scott County, Shelby County, Simpson County,
	Somerset Independent, Spencer County, Todd County, Trigg County, Trimble

County, Union County, Warren County, Washington County, Webster County,

Whitley County, Williamsburg Independent, Wolfe County

Emergency Medical Technicians and Paramedics	
Aligned Pathways	Hopkins County, Jessamine County, Kenton County, Muhlenberg County, Ohio
Emergency Medical Technician	County, Webster County
6 District(s) have Access to Pathways	
which Lead to this Occupation	
3.6% of Districts in State	
5 School(s) Offer Pathways which	
Lead to this Occupation (Note: A school	
may serve more than one district)	

<u>Healthcare</u>

Family and General Practitioners		
Aligned Pathways PLTW Biomedical Sciences	Barren County, Boone County, Carroll County, Christian County, Clark County, Corbin Independent, Covington Independent, Floyd County, Glasgow	
28 District(s) have Access to Pathways which Lead to this Occupation	Independent, Grant County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knox County, Laurel County, Lawrence County, Marshall County, Mason County, McCracken County, Montgomery County,	
16.8% of Districts in State 34 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	Muhlenberg County, Oldham County, Pulaski County, Scott County, Shelby County, Whitley County, Williamsburg Independent	

First-Line Supervisors of Office and Administrative Support Workers

Aligned Pathways

Administrative Support, Agribusiness Systems, Information Processing, Management Entrepreneurship, Medical Administrative Assisting

144 District(s) have Access to Pathways which Lead to this Occupation

86.2% of Districts in State

186 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Berea Independent, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton Independent, Gallatin County, Garrard County, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, Meade County, Menifee County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Pendleton County, Perry County, Pike County, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Wolfe County, Woodford County

Healthcare Managers

Aligned Pathways

Medical Administrative Assisting, Pre-Nursing

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

112 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Dawson Springs Independen, Dayton Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Licensed Practical and Licensed Vocational Nurses

Aligned Pathways

Pre-Nursing

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

110 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Dawson Springs Independen, Dayton Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Medical and Clinical Laboratory Technologists		
Aligned Pathways	Barren County, Boone County, Bowling Green Independent, Carroll County,	
Phlebotomy Technician, PLTW	Casey County, Christian County, Clark County, Clinton County, Corbin	
Biomedical Sciences	Independent, Covington Independent, Cumberland County, Edmonson	
41 District(s) have Access to	County, Floyd County, Glasgow Independent, Grant County, Greenup County,	
Pathways which Lead to this	Hardin County, Jefferson County, Jessamine County, Johnson County, Kenton	
Occupation	County, Knox County, Laurel County, Lawrence County, Marshall County,	
24.6% of Districts in State	Mason County, McCracken County, Metcalfe County, Monroe County,	
45 School(s) Offer Pathways which	Montgomery County, Muhlenberg County, Oldham County, Pulaski County,	
Lead to this Occupation (Note: A school	Scott County, Shelby County, Somerset Independent, Spencer County, Trigg	
may serve more than one district)	County, Warren County, Whitley County, Williamsburg Independent	

Medical Assistants

Aligned Pathways

Allied Health, Medical Administrative Assisting, Pre-Nursing

158 District(s) have Access to Pathways which Lead to this Occupation

94.6% of Districts in State

124 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Medical Records and Health Information Technicians

Aligned Pathways

Administrative Support, Informatics, Medical Administrative Assisting, Medical Business Office

129 District(s) have Access to Pathways which Lead to this Occupation

77.2% of Districts in State

141 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Berea Independent, Boone County, Bourbon County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Floyd County, Fort Thomas Independent, Franklin County, Fulton Independent, Gallatin County, Garrard County, Grant County, Graves County, Greenup County, Hancock County, Hardin County, Harlan County, Hart County, Hazard Independent, Henderson County, Henry County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Johnson County, Kenton County, Kentucky School for the D, Knott County, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, Meade County, Menifee County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paintsville Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rowan County, Russell Independent, Russellville Independent, Shelby County, Simpson County, Somerset Independent, Spencer County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Wayne County, Webster County, Whitley County, Wolfe County

Medical Secretaries

Aligned Pathways

Administrative Support, Information Processing, Medical Administrative Assisting, Medical Business Office

132 District(s) have Access to Pathways which Lead to this Occupation

79% of Districts in State

160 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Berea Independent, Boone County, Bourbon County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Floyd County, Fort Thomas Independent, Franklin County, Fulton Independent, Gallatin County, Garrard County, Grant County, Graves County, Grayson County, Greenup County, Hancock County, Hardin County, Harlan County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, Meade County, Menifee County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paintsville Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell Independent, Russellville Independent, Shelby County, Simpson County, Somerset Independent, Spencer County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Wayne County, Webster County, Whitley County, Wolfe County

N	Mental Health Counselors	
Aligned Pathways		
C	onsumer & Family Management	
10	01 District(s) have Access to	
Pa	athways which Lead to this	
0	ccupation	
60	0.5% of Districts in State	

119 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Beechwood Independent, Bell County, Boone County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Crittenden County, Cumberland County, Daviess County, Elliott County, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Garrard County, Grayson County, Green County, Hancock County, Hardin County, Harrison County, Hart County, Hazard Independent, Henderson County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Livingston County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Montgomery County, Morgan County, Muhlenberg County, Newport Independent, Oldham County, Paintsville Independent, Paris Independent, Pendleton County, Perry County, Pike County, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Todd County, Trigg County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Williamsburg Independent, Woodford County

Nurse Practitioners

Aligned Pathways

Pre-Nursing

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

110 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Dawson Springs Independen, Dayton Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Nursing Assistants

Aligned Pathways

Pre-Nursing

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

110 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Dawson Springs Independen, Dayton Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Personal Care Aides

Aligned Pathways

Allied Health, Pre-Nursing

158 District(s) have Access to Pathways which Lead to this Occupation

94.6% of Districts in State

122 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Physical Therapists			
Aligned Pathways	Ashland Independent, Eminence Independent, Hardin County, Jefferson		
Sports Medicine	County, McCracken County, Oldham County, Shelby County, Spencer County		
8 District(s) have Access to Pathways			
which Lead to this Occupation			
4.8% of Districts in State			
10 School(s) Offer Pathways which			
Lead to this Occupation (Note: A school			
may serve more than one district)			

<u>Healthcare</u>

Physicians and Surgeons, All Other			
Aligned Pathways	Barren County, Boone County, Carroll County, Christian County, Clark County,		
PLTW Biomedical Sciences	Corbin Independent, Covington Independent, Floyd County, Glasgow		
28 District(s) have Access to	Independent, Grant County, Jefferson County, Jessamine County, Johnson		
Pathways which Lead to this	County, Kenton County, Knox County, Laurel County, Lawrence County,		
Occupation	Marshall County, Mason County, McCracken County, Montgomery County,		
16.8% of Districts in State	Muhlenberg County, Oldham County, Pulaski County, Scott County, Shelby		
34 School(s) Offer Pathways which	County, Whitley County, Williamsburg Independent		
Lead to this Occupation (Note: A school may serve more than one district)			

Registered Nurses

Aligned Pathways

Pre-Nursing

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

110 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Dawson Springs Independen, Dayton Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Social and Human Service Assistants

Aligned Pathways

Consumer & Family Management

101 District(s) have Access to Pathways which Lead to this Occupation

60.5% of Districts in State

119 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Beechwood Independent, Bell County, Boone County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Crittenden County, Cumberland County, Daviess County, Elliott County, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Garrard County, Grayson County, Green County, Hancock County, Hardin County, Harrison County, Hart County, Hazard Independent, Henderson County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Livingston County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Montgomery County, Morgan County, Muhlenberg County, Newport Independent, Oldham County, Paintsville Independent, Paris Independent, Pendleton County, Perry County, Pike County, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Todd County, Trigg County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Williamsburg Independent, Woodford County

Aligned Pathways

Consumer & Family Management

101 District(s) have Access to Pathways which Lead to this Occupation

60.5% of Districts in State

119 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Beechwood Independent, Bell County, Boone County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carter County, Casey County, Christian County, Clark County, Clay County, Clinton County, Crittenden County, Cumberland County, Daviess County, Elliott County, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Garrard County, Grayson County, Green County, Hancock County, Hardin County, Harrison County, Hart County, Hazard Independent, Henderson County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, Laurel County, Lawrence County, Livingston County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Montgomery County, Morgan County, Muhlenberg County, Newport Independent, Oldham County, Paintsville Independent, Paris Independent, Pendleton County, Perry County, Pike County, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell Independent, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Todd County, Trigg County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Williamsburg Independent, Woodford County

Aircraft Mechanics and Service Technicians			
Aligned Pathways Aeronautical Engineering, Aircraft Maintenance Technician	Boone County, Corbin Independent, Crittenden County, Frankfort Independent, Hancock County, Jefferson County, Martin County, Mason County, Metcalfe County, Owensboro Independent, Russellville Independent,		
17 District(s) have Access to Pathways which Lead to this Occupation	Spencer County, Warren County, Whitley County, Williamsburg Independent, Williamstown Independent, Wolfe County		
10.2% of Districts in State			
15 School(s) Offer Pathways which			
Lead to this Occupation (Note: A school may serve more than one district)			

Transportation and Logistics

Airline Pilots, Copilots, and Flight Engineers		
Aligned Pathways	Adair County, Bullitt County, Frankfort Independent, Jefferson County, Mason	
Flight & Aeronautics	County, Middlesboro Independent, Russellville Independent, Spencer County,	
11 District(s) have Access to	Trimble County, Washington County, Williamstown Independent	
Pathways which Lead to this		
Occupation		
6.6% of Districts in State		
11 School(s) Offer Pathways which		
Lead to this Occupation (Note: A school may serve more than one district)		

Transportation and Logistics

Bus and Truck Mechanics and Diesel Engine Specialists			
Aligned Pathways	Allen County, Ballard County, Barren County, Bath County, Beechwood		
Agricultural Power, Structural,	Independent, Boone County, Bourbon County, Boyle County, Bracken County,		
Technical Systems, Automotive	Bullitt County, Butler County, Caldwell County, Carlisle County, Carroll		
Engineering/Automotive	County, Carter County, Casey County, Christian County, Clark County, Clinton		
Maintenance and Light Repair, Diesel	County, Crittenden County, Daviess County, Edmonson County, Erlanger-		
Brake Repairer/Basic Automotive	Elsmere Independ, Fayette County, Fleming County, Gallatin County, Garrard		
Electricity, Diesel	County, Graves County, Hancock County, Hardin County, Harlan County,		
Engine/ElectricianTechnician/Basic	Harrison County, Henderson County, Henry County, Hickman County, Hopkins		
Automotive Electricity Option	County, Jessamine County, Johnson County, Kenton County, Knox County,		
82 District(s) have Access to	LaRue County, Laurel County, Letcher County, Lewis County, Lincoln County,		
Pathways which Lead to this	Livingston County, Lyon County, Madison County, Marshall County,		
Occupation	McCracken County, McLean County, Menifee County, Mercer County,		
49.1% of Districts in State	Metcalfe County, Middlesboro Independent, Monroe County, Montgomery		
89 School(s) Offer Pathways which	County, Morgan County, Muhlenberg County, Nelson County, Nicholas		
Lead to this Occupation (Note: A school	County, Ohio County, Oldham County, Owen County, Owensboro		
may serve more than one district)	Independent, Perry County, Pulaski County, Rockcastle County, Rowan		
	County, Scott County, Simpson County, Spencer County, Taylor County, Todd		
	County, Trigg County, Trimble County, Union County, Walton-Verona		
	Independent, Warren County, Webster County, Whitley County, Woodford		
	County		

Dispatchers, Except Police, Fire, and Ambulance

Aligned Pathways

Automobile Service Technician,
Automotive Engineering/Automotive
Maintenance and Light Repair,
Automotive Maintenance and Light
Repair Technician, Diesel Brake
Repairer/Basic Automotive
Electricity, Diesel
Engine/ElectricianTechnician/Basic
Automotive Electricity Option, Entry
Level Non-Structural Damage and
Repair Technician

134 District(s) have Access to Pathways which Lead to this Occupation

80.2% of Districts in State

72 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Augusta Independent, Barbourville Independent, Bardstown Independent, Barren County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carroll County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Hazard Independent, Henderson County, Henry County, Hickman County, Jackson County, Jackson Independent, Jefferson County, Kenton County, Knott County, Knox County, Laurel County, Lee County, Letcher County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Marion County, Marshall County, Martin County, Mason County, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Metcalfe County, Middlesboro Independent, Monroe County, Morgan County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Pulaski County, Robertson County, Rockcastle County, Rowan County, Russell County, Russellville Independent, Shelby County, Silver Grove Independent, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Whitley County, Williamsburg Independent, Wolfe County

First-Line Supervisors

Aligned Pathways

Agribusiness Systems, Business Management, Management Entrepreneurship, Marketing

131 District(s) have Access to Pathways which Lead to this Occupation

78.4% of Districts in State

170 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Ashland Independent, Ballard County, Barren County, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Burgin Independent, Caldwell County, Campbell County, Campbellsville Independen, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Edmonson County, Elizabethtown Independent, Eminence Independent, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Rowan County, Russell County, Scott County, Shelby County, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Wolfe County, Woodford County

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, **Industrial Maintenance Electrical** Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance **Carpenter Assistant**

161 District(s) have Access to Pathways which Lead to this Occupation

96.4% of Districts in State

229 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bell County, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breathitt County, Breckinridge County, Bullitt County, Burgin Independent, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Martin County, Mason County, Mayfield Independent, McCracken County, McCreary County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Newport Independent, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Heavy and Tractor-Trailer Truck Drivers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences

85 District(s) have Access to Pathways which Lead to this Occupation

50.9% of Districts in State

90 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Allen County, Ballard County, Barren County, Bath County, Beechwood Independent, Boone County, Bourbon County, Boyle County, Bracken County, Bullitt County, Butler County, Caldwell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clinton County, Crittenden County, Daviess County, Edmonson County, Erlanger-Elsmere Independ, Fayette County, Fleming County, Gallatin County, Garrard County, Graves County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Kenton County, Knox County, LaRue County, Laurel County, Lawrence County, Letcher County, Lewis County, Lincoln County, Livingston County, Lyon County, Madison County, Marshall County, McCracken County, McLean County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Perry County, Pulaski County, Rockcastle County, Rowan County, Scott County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Webster County, Whitley County, Woodford County

Transportation and Logistics

Industrial Truck and Tractor Operators

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Heavy Equipment Sciences

79 District(s) have Access to Pathways which Lead to this Occupation

47.3% of Districts in State

88 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Allen County, Ballard County, Barren County, Bath County, Bourbon County, Boyle County, Bracken County, Bullitt County, Butler County, Caldwell County, Carlisle County, Carroll County, Carter County, Casey County, Christian County, Clark County, Clinton County, Crittenden County, Daviess County, Edmonson County, Fayette County, Fleming County, Gallatin County, Garrard County, Graves County, Hancock County, Hardin County, Harlan County, Harlan Independent, Harrison County, Henderson County, Henry County, Hickman County, Hopkins County, Jefferson County, Jessamine County, Johnson County, Knox County, LaRue County, Laurel County, Lawrence County, Lewis County, Lincoln County, Livingston County, Lyon County, Madison County, Marshall County, McCracken County, McLean County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Perry County, Pulaski County, Rockcastle County, Rowan County, Scott County, Simpson County, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Warren County, Webster County, Whitley County, Woodford County

Laborers, Packers, Movers		
Aligned Pathways	Jefferson County	
Global Logistics		
1 District(s) have Access to Pathways		
which Lead to this Occupation		
0.6% of Districts in State		
1 School(s) Offer Pathways which		
Lead to this Occupation (Note: A school may serve more than one district)		

Transportation and Logistics

Machine Feeders and Offbearers		
Aligned Pathways	Jefferson County	
Global Logistics		
1 District(s) have Access to Pathways		
which Lead to this Occupation		
0.6% of Districts in State		
1 School(s) Offer Pathways which		
Lead to this Occupation (Note: A school		
may serve more than one district)		

Maintenance and Repair Workers, General

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Fluid Power Mechanic, Gas Metal Arc Welder, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer, Sheet Metal Technician, Shielded Metal Arc Welder, Welder -Entry Level, Welding Pipefitters **TRACK**

152 District(s) have Access to Pathways which Lead to this Occupation

91% of Districts in State

168 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Anderson County, Ashland Independent, Augusta Independent, Ballard County, Barbourville Independent, Bardstown Independent, Barren County, Bath County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Butler County, Caldwell County, Calloway County, Campbell County, Campbellsville Independen, Carlisle County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clark County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Danville Independent, Daviess County, Dawson Springs Independen, Dayton Independent, Edmonson County, Elizabethtown Independent, Elliott County, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fairview Independent, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Grayson County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson County, Jefferson County, Jessamine County, Johnson County, Kenton County, Kentucky School for the D, Knox County, LaRue County, Laurel County, Lee County, Leslie County, Letcher County, Lewis County, Lincoln County, Livingston County, Logan County, Lyon County, Madison County, Magoffin County, Marion County, Marshall County, Mason County, Mayfield Independent, McCracken County, McLean County, Meade County, Menifee County, Mercer County, Metcalfe County, Middlesboro Independent, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paducah Independent, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Robertson County, Rockcastle County, Rowan County, Russell County, Russell Independent, Russellville Independent, Scott County, Shelby County, Silver Grove Independent, Simpson County, Somerset Independent, Spencer County, Taylor County, Todd County, Trigg County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Whitley County, Williamsburg Independent, Wolfe County, Woodford County

Reservation and Transportation Ticket Agents and Travel Clerks

Aligned Pathways

Hospitality Services, Hospitality, Travel, Tourism & Recreation, Marketing

66 District(s) have Access to Pathways which Lead to this Occupation

39.5% of Districts in State

73 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Barren County, Berea Independent, Boone County, Bourbon County, Bowling Green Independent, Boyle County, Bullitt County, Campbell County, Campbellsville Independen, Casey County, Christian County, Clark County, Clay County, Corbin Independent, Danville Independent, Edmonson County, Estill County, Fairview Independent, Fayette County, Franklin County, Gallatin County, Glasgow Independent, Graves County, Grayson County, Green County, Hardin County, Harlan County, Henderson County, Hopkins County, Jefferson County, Jessamine County, Knox County, Laurel County, Lewis County, Lincoln County, Livingston County, Logan County, Madison County, Marshall County, McCracken County, McCreary County, Meade County, Menifee County, Middlesboro Independent, Montgomery County, Muhlenberg County, Murray Independent, Newport Independent, Oldham County, Owensboro Independent, Paducah Independent, Pendleton County, Pike County, Pulaski County, Russell County, Scott County, Simpson County, Somerset Independent, Taylor County, Trigg County, Warren County, Whitley County, Williamstown Independent, Woodford County

Transportation and Logistics

Stock, Shipping, and Receiving Clerks

Aligned Pathways

Agribusiness Systems, Business Management, Retail/Wholesaling

115 District(s) have Access to Pathways which Lead to this Occupation

68.9% of Districts in State

144 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Adair County, Allen County, Ashland Independent, Ballard County, Barren County, Boone County, Bourbon County, Boyd County, Boyle County, Bracken County, Breckinridge County, Bullitt County, Burgin Independent, Caldwell County, Campbell County, Carroll County, Carter County, Casey County, Caverna Independent, Christian County, Clay County, Clinton County, Cloverport Independent, Corbin Independent, Covington Independent, Crittenden County, Cumberland County, Daviess County, Dawson Springs Independen, Elizabethtown Independent, Eminence Independent, Estill County, Fayette County, Fleming County, Floyd County, Fort Thomas Independent, Franklin County, Fulton County, Fulton Independent, Gallatin County, Garrard County, Glasgow Independent, Grant County, Graves County, Green County, Greenup County, Hancock County, Hardin County, Harlan County, Harrison County, Hart County, Henderson County, Henry County, Hickman County, Hopkins County, Jackson Independent, Jefferson County, Jessamine County, Johnson County, Kenton County, Knott County, Knox County, LaRue County, Laurel County, Lawrence County, Lee County, Letcher County, Lewis County, Lincoln County, Madison County, Marion County, Marshall County, Mason County, Mayfield Independent, McLean County, Meade County, Mercer County, Metcalfe County, Monroe County, Montgomery County, Morgan County, Muhlenberg County, Murray Independent, Nelson County, Nicholas County, Ohio County, Oldham County, Owen County, Owensboro Independent, Owsley County, Paris Independent, Pendleton County, Perry County, Pike County, Pikeville Independent, Powell County, Pulaski County, Raceland Independent, Rowan County, Russell County, Scott County, Shelby County, Somerset Independent, Spencer County, Taylor County, Todd County, Trimble County, Union County, Walton-Verona Independent, Warren County, Washington County, Wayne County, Webster County, Wolfe County, Woodford County

Transportation, Storage, and Distribution Managers		
Aligned Pathways	Jefferson County	
Global Logistics		
1 District(s) have Access to Pathways		
which Lead to this Occupation		
0.6% of Districts in State		
1 School(s) Offer Pathways which		
Lead to this Occupation (Note: A school		
may serve more than one district)		

Top Occupation Needs in High-Demand Sectors Not Met by District Offerings

- Bus Drivers
- Captains, Mates, and Pilots of Water Vessels
- Cargo and Freight Agents
- Light Truck or Delivery Services Drivers
- Postal Service Mail Carriers
- Sailors & Marine Oilers

KENTUCKY'S HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

State (16 KCTCS Institutions)

Advanced Manufacturing

First-Line Supervisors of Production and Operating Workers		
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG	
Business Studies - Business Administration Systems	SANDY COMMUNITY AND TECHNICAL COLLEGE,	
100% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,	
16 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL	
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL	
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY	
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON	
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE	
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND	
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,	
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY	
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,	
	WEST KY COMMUNITY AND TECHNICAL COLLEGE	

Advanced Manufacturing

Heavy and Tractor-Trailer Truck Drivers		
Aligned Pathways	HOPKINSVILLE CC-MAIN	
Truck Driver Training		
6.3% of Schools in KCTCS		
1 School(s) Offer Pathways which Lead to this Occupation		

Advanced Manufacturing

Inspectors, Testers, Sorters, Samplers, and Weighers	
Aligned Pathways	ELIZABETHTOWN COMMUNITY AND TECHNICAL COLLEGE
Quality Management Systems	
6.3% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Machine Tool Operator	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,
Computerized Manufacturing and Machining	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
75% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
12 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
·	COMMUNITY AND TECHNICAL COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHCENTRAL KY COMMUNITY TECHNICAL COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

Advanced Manufacturing

Machinist	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,
Computerized Manufacturing and Machining	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
75% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
12 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
·	COMMUNITY AND TECHNICAL COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHCENTRAL KY COMMUNITY TECHNICAL COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

Advanced Manufacturing

Welders	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Welding Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
93.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
15 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE, MADISONVILLE COMMUNITY COLLEGE,
	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
	OWENSBORO CTC-MAIN, SOMERSET COMMUNITY
	COLLEGE, SOUTHCENTRAL KY COMMUNITY TECHNICAL
	COLLEGE, SOUTHEAST KY CTC, WEST KY COMMUNITY
	AND TECHNICAL COLLEGE

Business and IT Services

Computer User Support Specialists	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Computer & Information Technologies, Engineering and	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Electronics Technology	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
16 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
·	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Business and IT Services

Customer Service Representatives	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Business Administration Systems	SANDY COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
16 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Business and IT Services

General and Operations Managers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Business Administration Systems	SANDY COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
16 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Business and IT Services

General Office Clerks	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Administrative Office Technology,	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
16 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
·	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Administrative Office Technology,	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Paralegal Technology	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
87.5% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
14 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
·	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Business and IT Services

Photographers	
Aligned Pathways	BIG SANDY COMMUNITY AND TECHNICAL COLLEGE,
Visual Communication: Communication Arts Technology,	GATEWAY COMMUNITY AND TECHNICAL COLLEGE,
Visual Communication: Design & Technology	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE
18.8% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Business and IT Services

Tax Preparers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Business Administration Systems	SANDY COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
16 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Business and IT Services

Veterinary Technologists and Technicians	
Aligned Pathways	OWENSBORO CTC-MAIN
Veterinary Technology	
6.3% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Brickmasons and Blockmasons	
Aligned Pathways	BIG SANDY COMMUNITY AND TECHNICAL COLLEGE,
Masonry	SOMERSET COMMUNITY COLLEGE
12.5% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Construction

Carpenters	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Construction Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
68.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
11 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
·	COMMUNITY AND TECHNICAL COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

Construction

Electrical Power-Line Installers and Repairers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,
Applied Process Technologies, Energy Technologies	GATEWAY COMMUNITY AND TECHNICAL COLLEGE,
37.5% of Schools in KCTCS	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE,
6 School(s) Offer Pathways which Lead to this Occupation	MADISONVILLE COMMUNITY COLLEGE, MAYSVILLE
,	COMMUNITY AND TECHNICAL COLLEGE, WEST KY
	COMMUNITY AND TECHNICAL COLLEGE

Electricians	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
MIT: Electrical Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
87.5% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
14 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HOPKINSVILLE CC-MAIN,
	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE,
	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
	OWENSBORO CTC-MAIN, SOMERSET COMMUNITY
	COLLEGE, SOUTHCENTRAL KY COMMUNITY TECHNICAL
	COLLEGE, SOUTHEAST KY CTC, WEST KY COMMUNITY
	AND TECHNICAL COLLEGE

General and Operations Managers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Business Administration Systems	SANDY COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
16 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Construction

Heating, Air Conditioning, and Refrigeration Mechanics and Installers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Advanced Integrated Technology, Air Conditioning	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Technology	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
93.8% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
15 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HAZARD CTC-MAIN, HOPKINSVILLE CC-MAIN,
·	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE,
	MADISONVILLE COMMUNITY COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHCENTRAL KY COMMUNITY TECHNICAL COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

Construction

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways	HOPKINSVILLE CC-MAIN
Truck Driver Training	
6.3% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Operating Engineers and Other Construction Equipment Operators	
Aligned Pathways	HAZARD CTC-MAIN, SOUTHEAST KY CTC
Healthcare Facilities Leadership	
12.5% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Painters, Construction and Maintenance	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Construction Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
68.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
11 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
·	COMMUNITY AND TECHNICAL COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

Construction

Plumbers, Pipefitters, and Steamfitters	
Aligned Pathways	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Plumbing Technology	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
25% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, WEST KY COMMUNITY AND TECHNICAL
	COLLEGE

Construction

Roofers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Construction Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
68.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
11 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
·	COMMUNITY AND TECHNICAL COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

Supervisors of Construction and Extraction Workers	
Aligned Pathways	MADISONVILLE COMMUNITY COLLEGE
Mining Technology	
6.3% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Telecommunications Line Installers and Repairers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Energy Technologies, Engineering and Electronics	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Technology, MIT: Electrical Technology	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
93.8% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
15 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HAZARD CTC-MAIN, HOPKINSVILLE CC-MAIN,
·	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE,
	MADISONVILLE COMMUNITY COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHCENTRAL KY COMMUNITY TECHNICAL COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

Welders, Cutters, Solderers, and Brazers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Welding Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
93.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
15 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE, MADISONVILLE COMMUNITY COLLEGE,
	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
	OWENSBORO CTC-MAIN, SOMERSET COMMUNITY
	COLLEGE, SOUTHCENTRAL KY COMMUNITY TECHNICAL
	COLLEGE, SOUTHEAST KY CTC, WEST KY COMMUNITY
	AND TECHNICAL COLLEGE

Childcare Workers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Interdisciplinary Early Childhood Education	SANDY COMMUNITY AND TECHNICAL COLLEGE,
93.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
15 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Healthcare

Dental Assistants	
Aligned Pathways	BIG SANDY COMMUNITY AND TECHNICAL COLLEGE,
Dental Assisting/Dental Hygiene Integrated Program	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
25% of Schools in KCTCS	HENDERSON COMMUNITY COLLEGE, WEST KY
4 School(s) Offer Pathways which Lead to this Occupation	COMMUNITY AND TECHNICAL COLLEGE

Healthcare

Emergency Medical Technicians and Paramedics	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,
Emergency Medical Services - Paramedic, Fire/Rescue	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Science Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
81.3% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
13 School(s) Offer Pathways which Lead to this	COLLEGE, HAZARD CTC-MAIN, JEFFERSON COMMUNITY
Occupation	AND TECHNICAL COLLEGE, MADISONVILLE COMMUNITY
'	COLLEGE, MAYSVILLE COMMUNITY AND TECHNICAL
	COLLEGE, OWENSBORO CTC-MAIN, SOMERSET
	COMMUNITY COLLEGE, SOUTHCENTRAL KY COMMUNITY
	TECHNICAL COLLEGE, SOUTHEAST KY CTC, WEST KY
	COMMUNITY AND TECHNICAL COLLEGE

First-Line Supervisors of Office and Administrative Support Workers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Medical Information Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
93.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
15 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HOPKINSVILLE CC-MAIN,
	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE,
	MADISONVILLE COMMUNITY COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, OWENSBORO
	CTC-MAIN, SOMERSET COMMUNITY COLLEGE,
	SOUTHCENTRAL KY COMMUNITY TECHNICAL COLLEGE,
	SOUTHEAST KY CTC, WEST KY COMMUNITY AND
	TECHNICAL COLLEGE

<u>Healthcare</u>

Licensed Practical and Licensed Vocational Nurses	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Nursing – Academic/Career Mobility Program	SANDY COMMUNITY AND TECHNICAL COLLEGE,
93.8% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
15 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, WEST KY
	COMMUNITY AND TECHNICAL COLLEGE

<u>Healthcare</u>

Medical Assistants	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Medical Assisting	GATEWAY COMMUNITY AND TECHNICAL COLLEGE,
43.8% of Schools in KCTCS	HENDERSON COMMUNITY COLLEGE, JEFFERSON
7 School(s) Offer Pathways which Lead to this Occupation	COMMUNITY AND TECHNICAL COLLEGE, MAYSVILLE
	COMMUNITY AND TECHNICAL COLLEGE, SOMERSET
	COMMUNITY COLLEGE, SOUTHEAST KY CTC

Medical Records and Health Information Technicians	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Business Administration Systems,	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Medical Information Technology,	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Health Information Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
16 School(s) Offer Pathways which Lead to this	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
Occupation	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Healthcare

Medical Secretaries	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Medical Information Technology,	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Health Information Technology, Medical Assisting	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
16 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Healthcare

Nursing Assistants	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Nursing - Integrated Nursing, Nursing Assistant –	SANDY COMMUNITY AND TECHNICAL COLLEGE,
Advanced	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL
16 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Occupation	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
·	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Registered Nurses	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Nursing	SANDY COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
16 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
'	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Aircraft Mechanics and Service Technicians			
Aligned Pathways	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE,		
Aviation Maintenance Technology	SOMERSET COMMUNITY COLLEGE		
12.5% of Schools in KCTCS			
2 School(s) Offer Pathways which Lead to this Occupation			

Transportation and Logistics

Bus and Truck Mechanics and Diesel Engine Specialists		
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG	
Diesel Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,	
62.5% of Schools in KCTCS	ELIZABETHTOWN COMMUNITY AND TECHNICAL	
10 School(s) Offer Pathways which Lead to this	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL	
Occupation	COLLEGE, HAZARD CTC-MAIN, MAYSVILLE COMMUNITY	
	AND TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,	
	SOMERSET COMMUNITY COLLEGE, SOUTHEAST KY CTC,	
	WEST KY COMMUNITY AND TECHNICAL COLLEGE	

Transportation and Logistics

General and Operations Managers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Business Administration Systems	SANDY COMMUNITY AND TECHNICAL COLLEGE,
100% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
16 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
·	COLLEGE, HAZARD CTC-MAIN, HENDERSON COMMUNITY
	COLLEGE, HOPKINSVILLE CC-MAIN, JEFFERSON
	COMMUNITY AND TECHNICAL COLLEGE, MADISONVILLE
	COMMUNITY COLLEGE, MAYSVILLE COMMUNITY AND
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,
	WEST KY COMMUNITY AND TECHNICAL COLLEGE

Transportation and Logistics

Heavy and Tractor-Trailer Truck Drivers		
Aligned Pathways	HOPKINSVILLE CC-MAIN	
Truck Driver Training		
6.3% of Schools in KCTCS		
1 School(s) Offer Pathways which Lead to this Occupation		

Maintenance and Repair Workers, General		
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG	
MIT: Industrial Maintenance Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,	
87.5% of Schools in KCTCS	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,	
14 School(s) Offer Pathways which Lead to this	ELIZABETHTOWN COMMUNITY AND TECHNICAL	
Occupation	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL	
	COLLEGE, HENDERSON COMMUNITY COLLEGE,	
	HOPKINSVILLE CC-MAIN, JEFFERSON COMMUNITY AND	
	TECHNICAL COLLEGE, MAYSVILLE COMMUNITY AND	
	TECHNICAL COLLEGE, OWENSBORO CTC-MAIN,	
	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY	
	COMMUNITY TECHNICAL COLLEGE, SOUTHEAST KY CTC,	
	WEST KY COMMUNITY AND TECHNICAL COLLEGE	

Transportation and Logistics

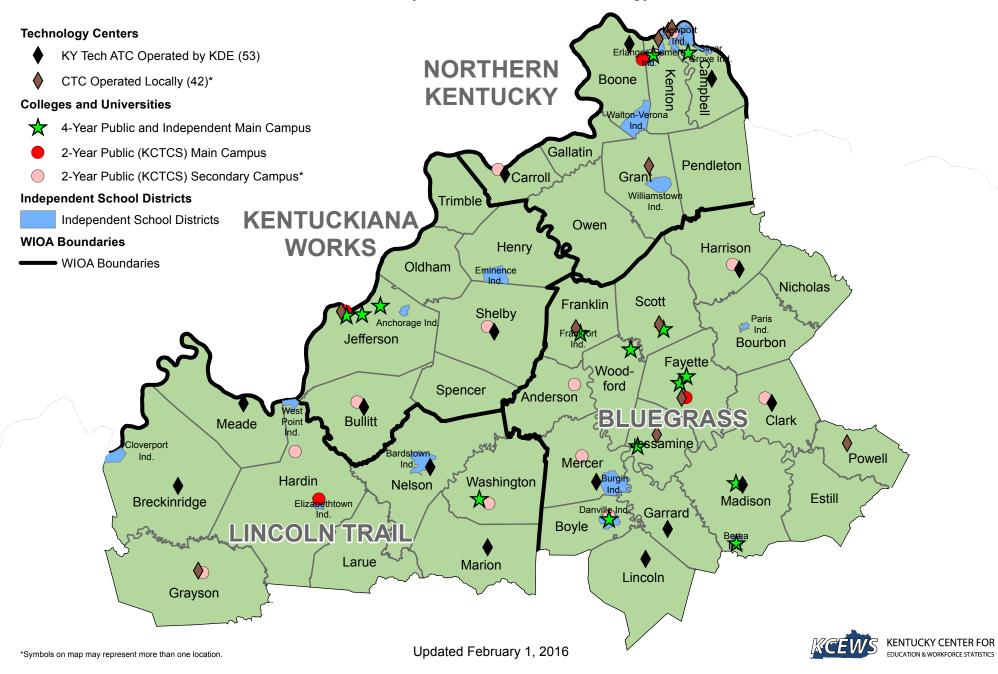
Sailors and Marine Oilers		
Aligned Pathways	WEST KY COMMUNITY AND TECHNICAL COLLEGE	
Marine Technology		
6.3% of Schools in KCTCS		
1 School(s) Offer Pathways which Lead to this Occupation		

Transportation and Logistics

Transportation, Storage, and Distribution Managers			
Aligned Pathways WEST KY COMMUNITY AND TECHNICAL COLLEGE			
Marine Technology			
6.3% of Schools in KCTCS			
1 School(s) Offer Pathways which Lead to this Occupation			

Central Region

with Postsecondary Institutions and Technology Centers



	Central Region High-Demand Industry Sectors and Top Occupations					
	Business & IT Services	Construction	Healthcare	Advanced Manufacturing	Transportation & Logistics	
	This sector comprises professional and financial services, information technology, wholesale trade, and scientific and technical occupations.	This sector comprises occupations primarily engaged in the constuction and maintenance of buildings.	This sector comprises both health care services and social assistance.	This sector comprises occupations in the mechanical, physical or chemicial transformation of materials, substances or components into new products.	This sector comprises occupations in industries providing movement of passengers or cargo, warehousing and storage, and those that plan, direct or coordinate the distribution activities of products.	
	Accountants and Auditors	Construction Laborers	Registered Nurses	Manufacturing Operator/Technician	Laborers, Packers, Movers	
	Managers, All Other	Electricians	Personal Care Aides	Machine Maintenance Specialist	Heavy and Tractor-Trailer Truck Drivers	S
	Lawyers	Carpenters	Nursing Assistants	Machinist	Light Truck or Delivery Services Drivers	H
	Management Analysts	Plumbers, Pipefitters, and Steamfitters	Childcare Workers	Engineers - Process/Manufacturing	First-Line Supervisors	i K
Т	Software Developers, Applications	Painters, Construction and Maintenance	Medical Assistants	Machine Tool Operator	Industrial Truck and Tractor Operators	g !
O	Computer Systems Analysts	Supervisors of Construction and Extraction Workers	Licensed Practical and Licensed Vocational Nurses	Welders	Stock, Shipping, and Receiving Clerks	h l
р	General and Operations Managers	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Healthcare Managers	Inspectors, Testers, Sorters, Samplers, and Weighers	Postal Service Mail Carriers	
0	General Office Clerks	Construction Managers	Medical Secretaries	First-Line Supervisors of Production and Operating Workers	Cargo and Freight Agents	
С	Civil Engineers	Operating Engineers and Other Construction Equipment Operators	Social Workers	Engineers - Design	Bus Drivers	M S
_	Customer Service Representatives	General and Operations Managers	Physicians and Surgeons, All Other	Manufacturing Managers	Dispatchers, Except Police, Fire, and Ambulance	i
u	Software Developers, Systems Software	Cost Estimators	Physical Therapists	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific	General and Operations Managers	d i
n	Sales Representatives, Services, All Other	Roofers	Dental Assistants	Production, Planning, and Expediting Clerks	Aircraft Mechanics and Service Technicians	
р a	Paralegals and Legal Assistants	Electrical Power-Line Installers and Repairers	Social and Human Service Assistants	Food Batchmakers	Machine Feeders and Offbearers	e l
t	Computer User Support Specialists	Cement Masons and Concrete Finishers	First-Line Supervisors of Office and Administrative Support Workers	Heavy and Tractor-Trailer Truck Drivers	Airline Pilots, Copilots, and Flight Engineers	
i	Market Research Analysts and Marketing Specialists	Sheet Metal Workers	Nurse Practitioners	Architectural and Engineering Managers	Bus and Truck Mechanics and Diesel Engine Specialists	
0	Veterinary Technologists and Technicians	Heavy and Tractor-Trailer Truck Drivers	Dental Hygienists	Chemical Plant and System Operators	Maintenance and Repair Workers, General	S
n	Mechanical Engineers	Telecommunications Line Installers and Repairers	Medical Records and Health Information Technicians	Electricians	Sales Representatives, Services, All Other	L k
S	Tax Preparers	Welders, Cutters, Solderers, and Brazers	Medical and Clinical Laboratory Technologists	Industrial Engineering Technicians	Transportation, Storage, and Distribution Managers	w I
	Computer and Information Systems Managers	Brickmasons and Blockmasons	Medical and Clinical Laboratory Technicians		Flight Attendants	1
	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	Insulation Workers, Mechanical	Family and General Practitioners		Reservation and Transportation Ticket Agents and Travel Clerks	
	*To	p 20 Occupations based on the Forecasted Number of		5 years. Occupations not industry specific were remo	oved.	
			Support Sectors			
	Retail Trade	Educational Services	Public Administration	Government	Accomodation and Food Services	
	Energy	Entrepreneurship				

KENTUCKY'S <u>CENTRAL REGION</u> HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

Central Region (60 Districts Participating in CTE)

Advanced Manufacturing

Architectural and Engineering Managers		
Aligned Pathways	Anderson County, Bardstown Independent, Boone	
Civil Architecture & Construction Technology, Project	County, Boyle County, Bullitt County, Carroll County,	
Lead the Way (PLTW) - Engineering	Clark County, Danville Independent, Elizabethtown	
25 District(s) have Access to Pathways which Lead to this	Independent, Fayette County, Franklin County, Grant	
Occupation	County, Hardin County, Harrison County, Jefferson	
41.7% of Districts in Region	County, Jessamine County, Kenton County, Madison	
31 School(s) Offer Pathways which Lead to this	County, Marion County, Meade County, Mercer County,	
Occupation (Note: A school may serve more than one district)	Oldham County, Scott County, Shelby County, Woodford	
	County	

Advanced Manufacturing

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Electricians			
Aligned Pathways	Anderson County, Beechwood Independent, Bellevue		
Construction-Electrical-TRACK, Electrical Engineering,	Independent, Berea Independent, Boone County, Boyle		
Electrician Assistant, Industrial Electrician Assistant,	County, Bullitt County, Campbell County, Carroll County,		
Residential Electrician	Danville Independent, Dayton Independent,		
30 District(s) have Access to Pathways which Lead to this	Elizabethtown Independent, Erlanger-Elsmere Independ,		
Occupation	Estill County, Fayette County, Fort Thomas Independent,		
50% of Districts in Region	Gallatin County, Garrard County, Grant County, Henry		
11 School(s) Offer Pathways which Lead to this	County, Jefferson County, Kenton County, Lincoln County,		
Occupation (Note: A school may serve more than one district)	Madison County, Mercer County, Owen County,		
·	Pendleton County, Silver Grove Independent, Trimble		
	County, Walton-Verona Independent		

Engineers - Design

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automotive Engineering/Automotive Maintenance and
Light Repair, Computer Numerical Control (CNC)
Programmer, Electrical Engineering, Engineering &
Technology Design, Fluid Power Mechanic, Industrial
Maintenance Electrical Technician, Machinist Operator,
Machinist Technician, Maintenance Machinist,
Maintenance Mechanic, Manufacturing Engineering
Technology Technician, Mechanical Designer, Project
Lead the Way (PLTW) - Engineering, Robotics &
Automation

52 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

72 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Danville Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Advanced Manufacturing

Engineers - Process/Manufacturing

Aligned Pathways

Electrical Engineering, Engineering & Technology Design, Manufacturing Engineering Technology Technician, Project Lead the Way (PLTW) - Engineering, Robotics & Automation

37 District(s) have Access to Pathways which Lead to this Occupation

61.7% of Districts in Region

49 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Berea Independent, Boone County, Boyle County, Bullitt County, Campbell County, Carroll County, Clark County, Danville Independent, Elizabethtown Independent, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Grant County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nicholas County, Oldham County, Owen County, Pendleton County, Scott County, Shelby County, Spencer County, Trimble County, Woodford County

First-Line Supervisors of Production and Operating Workers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Business Management, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Management Entrepreneurship, Manufacturing Engineering Technology Technician, Manufacturing TRACK

52 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

82 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Advanced Manufacturing

Food Batchmakers

Aligned Pathways

Agribiotechnology Systems, Food Science and Processing Systems

11 District(s) have Access to Pathways which Lead to this Occupation

18.3% of Districts in Region

12 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Burgin Independent, Fayette County, Hardin County, Jessamine County, Kenton County, LaRue County, Nelson County, Scott County, Spencer County, Walton-Verona Independent

Advanced Manufacturing

Heavy and Tractor-Trailer Truck Drivers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences

30 District(s) have Access to Pathways which Lead to this Occupation

50% of Districts in Region

29 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Beechwood Independent, Boone County, Bourbon
County, Boyle County, Bullitt County, Carroll County,
Clark County, Erlanger-Elsmere Independ, Fayette
County, Gallatin County, Garrard County, Hardin County,
Harrison County, Henry County, Jefferson County,
Jessamine County, Kenton County, LaRue County, Lincoln
County, Madison County, Mercer County, Nelson County,
Nicholas County, Oldham County, Owen County, Scott
County, Spencer County, Trimble County, Walton-Verona
Independent, Woodford County

Industrial Engineering Technicians	
Aligned Pathways	Carroll County, Eminence Independent, Gallatin County,
Industrial Maintenance Electrical Technician	Henry County, Jefferson County, Owen County, Shelby
9 District(s) have Access to Pathways which Lead to this	County, Spencer County, Trimble County
Occupation	
15% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Advanced Manufacturing

Inspectors, Testers, Sorters, Samplers, and Weighers

Aligned Pathways

Automated Wood Processer, Cabinetmaker, Combination Arc Welder, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Fluid Power Mechanic, Furniture Maker, Gas Metal Arc Welder, Industrial Maintenance Electrical Technician, Industrial Maintenance Welding Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Refrigeration Technician, Retail/Wholesaling, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level

53 District(s) have Access to Pathways which Lead to this Occupation

88.3% of Districts in Region

41 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Kenton County, Kentucky School for the Deaf, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Machine Maintenance Specialist

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Combination Arc Welder, Computer Numerical Control
(CNC) Operator, Computer Numerical Control (CNC)
Programmer, Fluid Power Mechanic, Gas Metal Arc
Welder, Industrial Maintenance Electrical Technician,
Machinist Operator, Machinist Technician, Maintenance
Machinist, Maintenance Mechanic, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician,
Shielded Metal Arc Welder, Welder - Entry Level, Welding
Pipefitters TRACK

56 District(s) have Access to Pathways which Lead to this Occupation

93.3% of Districts in Region

57 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Advanced Manufacturing

Machine Tool Operator

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer

43 District(s) have Access to Pathways which Lead to this Occupation

71.7% of Districts in Region

46 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Carroll County, Clark County, Cloverport Independent, Danville Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Gallatin County, Garrard County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Machinist

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer, Sheet Metal Technician

42 District(s) have Access to Pathways which Lead to this Occupation

70% of Districts in Region

41 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Carroll County, Clark County, Cloverport Independent, Danville Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Gallatin County, Garrard County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Advanced Manufacturing

Manufacturing Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Hospitality Services, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant 58 District(s) have Access to Pathways which Lead to this Occupation

96.7% of Districts in Region

95 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Williamstown Independent, Woodford County

Manufacturing Operator/Technician

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automated Wood Processer, Cabinetmaker, Computer
Numerical Control (CNC) Operator, Computer Numerical
Control (CNC) Programmer, Fluid Power Mechanic,
Furniture Maker, Industrial Maintenance Electrical
Technician, Machinist Operator, Machinist Technician,
Maintenance Machinist, Maintenance Mechanic,
Manufacturing Engineering Technology Technician,
Manufacturing TRACK, Sheet Metal Technician, Welder Entry Level

50 District(s) have Access to Pathways which Lead to this Occupation

83.3% of Districts in Region

56 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Advanced Manufacturing

Production, Planning, and Expediting Clerks

Aligned Pathways

Administrative Support, Business Management, Global Logistics, Management Entrepreneurship, Marketing, Retail/Wholesaling

52 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

87 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Woodford County

Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products

Aligned Pathways

Agribusiness Systems, Marketing, Retail/Wholesaling

32 District(s) have Access to Pathways which Lead to this Occupation

53.3% of Districts in Region

43 School(s) Offer Pathways which Lead to this

Occupation (Note: A school may serve more than one district)

Berea Independent, Boone County, Bourbon County,
Boyle County, Bullitt County, Burgin Independent,
Campbell County, Clark County, Danville Independent,
Estill County, Fayette County, Franklin County, Gallatin
County, Grayson County, Hardin County, Harrison County,
Jefferson County, Jessamine County, Lincoln County,
Madison County, Marion County, Meade County, Mercer
County, Nelson County, Newport Independent, Oldham
County, Pendleton County, Scott County, Spencer County,
Walton-Verona Independent, Washington County,
Woodford County

Advanced Manufacturing

Welders

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

52 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

49 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Scott County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Accountants and Auditors	
Aligned Pathways	Bardstown Independent, Beechwood Independent, Berea
Accounting, Finance	Independent, Boone County, Boyle County, Bullitt
27 District(s) have Access to Pathways which Lead to this	County, Campbell County, Clark County, Elizabethtown
Occupation	Independent, Estill County, Fayette County, Franklin
45% of Districts in Region	County, Gallatin County, Garrard County, Grant County,
37 School(s) Offer Pathways which Lead to this	Hardin County, Henry County, Jefferson County, Kenton
Occupation (Note: A school may serve more than one district)	County, LaRue County, Lincoln County, Madison County,
	Meade County, Nelson County, Newport Independent,
	Pendleton County, Powell County

Business and IT Services

Dusiness and 11 Services	
Civil Engineers	
Aligned Pathways	Anderson County, Bardstown Independent, Berea
Agricultural Power, Structural, Technical Systems, Civil	Independent, Boone County, Bourbon County, Boyle
Architecture & Construction Technology, Civil Designer,	County, Breckinridge County, Bullitt County, Carroll
Computer Numerical Control (CNC) Operator, Computer	County, Clark County, Cloverport Independent, Danville
Numerical Control (CNC) Programmer, Project Lead the	Independent, Elizabethtown Independent, Estill County,
Way (PLTW) - Engineering	Fayette County, Franklin County, Gallatin County, Garrard
40 District(s) have Access to Pathways which Lead to this	County, Grant County, Hardin County, Harrison County,
Occupation	Henry County, Jefferson County, Jessamine County,
66.7% of Districts in Region	Kenton County, LaRue County, Lincoln County, Madison
52 School(s) Offer Pathways which Lead to this	County, Marion County, Meade County, Mercer County,
Occupation (Note: A school may serve more than one district)	Nelson County, Nicholas County, Oldham County, Owen
	County, Scott County, Shelby County, Spencer County,
	Trimble County, Woodford County

Business and IT Services

Computer and Information Systems Managers	
Aligned Pathways	Anderson County, Boone County, Bourbon County,
Informatics, Information Support and Services, Network	Breckinridge County, Carroll County, Clark County,
Security	Cloverport Independent, Covington Independent,
32 District(s) have Access to Pathways which Lead to this	Danville Independent, Eminence Independent, Gallatin
Occupation	County, Garrard County, Grant County, Hardin County,
53.3% of Districts in Region	Harrison County, Henry County, Jefferson County,
23 School(s) Offer Pathways which Lead to this	Jessamine County, Kenton County, Kentucky School for
Occupation (Note: A school may serve more than one district)	the Deaf, LaRue County, Lincoln County, Marion County,
	Mercer County, Nicholas County, Owen County, Paris
	Independent, Powell County, Shelby County, Spencer
	County, Trimble County, Washington County

Computer Systems Analysts	
Aligned Pathways	Anderson County, Boone County, Bourbon County,
Informatics, Information Support and Services	Breckinridge County, Carroll County, Clark County,
31 District(s) have Access to Pathways which Lead to this	Cloverport Independent, Covington Independent,
Occupation	Danville Independent, Eminence Independent, Gallatin
51.7% of Districts in Region	County, Garrard County, Grant County, Harrison County,
22 School(s) Offer Pathways which Lead to this	Henry County, Jefferson County, Jessamine County,
Occupation (Note: A school may serve more than one district)	Kenton County, Kentucky School for the Deaf, LaRue
·	County, Lincoln County, Marion County, Mercer County,
	Nicholas County, Owen County, Paris Independent,
	Powell County, Shelby County, Spencer County, Trimble
	County, Washington County

Business and IT Services	
Computer User Support Specialists	
Aligned Pathways Business Multimedia, Information Processing, Information Support and Services 41 District(s) have Access to Pathways which Lead to this Occupation 68.3% of Districts in Region 58 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	Anderson County, Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Estill County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nicholas County, Owen County, Paris Independent, Shelby County, Spencer County, Woodford County

Customer Service Representatives

Aligned Pathways

Administrative Support, Agribusiness Systems, Financial Services (Marketing), Hospitality Services, Information Processing, Information Support and Services, Marketing, Retail/Wholesaling

55 District(s) have Access to Pathways which Lead to this Occupation

91.7% of Districts in Region

91 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Williamstown Independent, **Woodford County**

Business and IT Services

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

57 District(s) have Access to Pathways which Lead to this Occupation

95% of Districts in Region

94 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

General Office Clerks	
Aligned Pathways	Bardstown Independent, Beechwood Independent, Berea
Administrative Support, Agribusiness Systems,	Independent, Boone County, Bourbon County, Boyle
Information Processing	County, Breckinridge County, Bullitt County, Burgin
45 District(s) have Access to Pathways which Lead to this	Independent, Campbell County, Carroll County, Clark
Occupation	County, Cloverport Independent, Covington Independent,
75% of Districts in Region	Dayton Independent, Elizabethtown Independent,
68 School(s) Offer Pathways which Lead to this	Erlanger-Elsmere Independ, Estill County, Fayette County,
Occupation (Note: A school may serve more than one district)	Fort Thomas Independent, Franklin County, Gallatin
	County, Grant County, Grayson County, Hardin County,
	Harrison County, Henry County, Jefferson County,
	Jessamine County, Kenton County, Madison County,
	Marion County, Meade County, Nelson County, Newport
	Independent, Nicholas County, Oldham County, Owen
	County, Pendleton County, Scott County, Spencer County,
	Trimble County, Walton-Verona Independent,
	Washington County, Woodford County

Business and IT Services

Lawyers	
Aligned Pathways	Jefferson County, Scott County
Pre-Law Studies	
2 District(s) have Access to Pathways which Lead to this	
Occupation	
3.3% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Business and IT Services

Management Analysts	
Aligned Pathways	Bardstown Independent, Beechwood Independent, Berea
Accounting, Agribusiness Systems, Business	Independent, Boone County, Bourbon County, Boyle
Management, Management Entrepreneurship	County, Breckinridge County, Bullitt County, Burgin
49 District(s) have Access to Pathways which Lead to this	Independent, Campbell County, Carroll County, Clark
Occupation	County, Cloverport Independent, Covington Independent,
81.7% of Districts in Region	Elizabethtown Independent, Eminence Independent, Estill
73 School(s) Offer Pathways which Lead to this	County, Fayette County, Fort Thomas Independent,
Occupation (Note: A school may serve more than one district)	Franklin County, Gallatin County, Garrard County, Grant
	County, Hardin County, Harrison County, Henry County,
	Jefferson County, Jessamine County, Kenton County,
	LaRue County, Lincoln County, Madison County, Marion
	County, Meade County, Nelson County, Newport
	Independent, Nicholas County, Oldham County, Owen
	County, Paris Independent, Pendleton County, Powell
	County, Scott County, Shelby County, Spencer County,
	Trimble County, Walton-Verona Independent,
	Washington County, Woodford County

Managers, All Other

Aligned Pathways

Accounting, Agribusiness Systems, Business Management, Finance, Hospitality Services, Management Entrepreneurship, Retail/Wholesaling

51 District(s) have Access to Pathways which Lead to this Occupation

85% of Districts in Region

77 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Elizabethtown Independent, Eminence Independent, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Williamstown Independent, **Woodford County**

Business and IT Services

Market Research Analysts and Marketing Specialists

Aligned Pathways

Advertising, Agribusiness Systems, Business Management, E-Commerce, Marketing

49 District(s) have Access to Pathways which Lead to this Occupation

81.7% of Districts in Region

76 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Elizabethtown Independent, Eminence Independent, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Mechanical Engineers

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automotive Engineering/Automotive Maintenance and
Light Repair, Computer Numerical Control (CNC)
Programmer, Electrical Engineering, Engineering &
Technology Design, Fluid Power Mechanic, Industrial
Maintenance Electrical Technician, Machinist Operator,
Machinist Technician, Maintenance Machinist,
Maintenance Mechanic, Manufacturing Engineering
Technology Technician, Mechanical Designer, Project
Lead the Way (PLTW) - Engineering, Robotics &
Automation

52 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

72 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Danville Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	Jefferson County, Scott County
Legal Office, Pre-Law Studies	
2 District(s) have Access to Pathways which Lead to this	
Occupation	
3.3% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Business and IT Services

Sales Representatives	
Aligned Pathways	Berea Independent, Boone County, Bourbon County,
Agribusiness Systems, Marketing, Retail/Wholesaling	Boyle County, Bullitt County, Burgin Independent,
32 District(s) have Access to Pathways which Lead to this	Campbell County, Clark County, Danville Independent,
Occupation	Estill County, Fayette County, Franklin County, Gallatin
53.3% of Districts in Region	County, Grayson County, Hardin County, Harrison County,
43 School(s) Offer Pathways which Lead to this	Jefferson County, Jessamine County, Lincoln County,
Occupation (Note: A school may serve more than one district)	Madison County, Marion County, Meade County, Mercer
	County, Nelson County, Newport Independent, Oldham
	County, Pendleton County, Scott County, Spencer County,
	Walton-Verona Independent, Washington County,
	Woodford County

Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

Aligned Pathways

Accounting, Administrative Support, Agribusiness Systems, Information Processing

48 District(s) have Access to Pathways which Lead to this Occupation

80% of Districts in Region

72 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Pendleton County, Powell County, Scott County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, **Woodford County**

Business and IT Services

Software Developers, Applications

Aligned Pathways

Computer Programming, Computer Science, Digital Design and Game Development, Web Development/Administration

- 31 District(s) have Access to Pathways which Lead to this Occupation
- 51.7% of Districts in Region
- 31 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Carroll County, Cloverport Independent, Eminence Independent, Fayette County, Franklin County, Gallatin County, Grant County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Madison County, Marion County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Shelby County, Spencer County, Trimble County, Washington County

Business and IT Services

Software Developers, Systems Software

Aligned Pathways

Computer Programming, Computer Science, Digital Design and Game Development, Network Security, Web Development/Administration

- 32 District(s) have Access to Pathways which Lead to this Occupation
- 53.3% of Districts in Region
- 32 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Carroll County, Cloverport Independent, Eminence Independent, Fayette County, Franklin County, Gallatin County, Grant County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Madison County, Marion County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Shelby County, Spencer County, Trimble County, Washington County

Tax Preparers	
Aligned Pathways	Bardstown Independent, Beechwood Independent, Berea
Accounting, Finance	Independent, Boone County, Boyle County, Bullitt
27 District(s) have Access to Pathways which Lead to this	County, Campbell County, Clark County, Elizabethtown
Occupation	Independent, Estill County, Fayette County, Franklin
45% of Districts in Region	County, Gallatin County, Garrard County, Grant County,
37 School(s) Offer Pathways which Lead to this	Hardin County, Henry County, Jefferson County, Kenton
Occupation (Note: A school may serve more than one district)	County, LaRue County, Lincoln County, Madison County,
	Meade County, Nelson County, Newport Independent,
	Pendleton County, Powell County

Business and IT Services

Veterinary Technologists and Technicians	
Aligned Pathways	Anderson County, Boone County, Bourbon County, Boyle
Agribiotechnology Systems, Animal Science Systems,	County, Breckinridge County, Bullitt County, Burgin
Veterinary Assistant	Independent, Campbell County, Carroll County, Clark
43 District(s) have Access to Pathways which Lead to this	County, Fayette County, Franklin County, Gallatin County,
Occupation	Garrard County, Grant County, Grayson County, Hardin
71.7% of Districts in Region	County, Harrison County, Henry County, Jefferson
56 School(s) Offer Pathways which Lead to this	County, Jessamine County, Kenton County, Kentucky
Occupation (Note: A school may serve more than one district)	School for the Deaf, LaRue County, Lincoln County,
·	Madison County, Marion County, Meade County, Mercer
	County, Nelson County, Nicholas County, Oldham County,
	Owen County, Pendleton County, Powell County, Scott
	County, Shelby County, Spencer County, Trimble County,
	Walton-Verona Independent, Washington County,
	Williamstown Independent, Woodford County

Brickmasons and Blockmasons	
Aligned Pathways	Bellevue Independent, Bullitt County, Campbell County,
Bricklayer Assistant, Mason Apprentice	Dayton Independent, Fort Thomas Independent,
8 District(s) have Access to Pathways which Lead to this	Jefferson County, Pendleton County, Silver Grove
Occupation	Independent
13.3% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Construction

Carpenters	
Aligned Pathways	Anderson County, Bardstown Independent, Bellevue
Carpenter Assistant, Carpentry-TRACK, Construction	Independent, Berea Independent, Bourbon County, Boyle
Forms Assistant, Residential Carpenter Assistant,	County, Breckinridge County, Bullitt County, Campbell
Residential Maintenance Carpenter Assistant	County, Carroll County, Clark County, Cloverport
43 District(s) have Access to Pathways which Lead to this	Independent, Covington Independent, Danville
Occupation	Independent, Dayton Independent, Elizabethtown
71.7% of Districts in Region	Independent, Estill County, Fayette County, Fort Thomas
21 School(s) Offer Pathways which Lead to this	Independent, Franklin County, Gallatin County, Garrard
Occupation (Note: A school may serve more than one district)	County, Grayson County, Hardin County, Harrison County,
	Henry County, Jefferson County, Lincoln County, Madison
	County, Marion County, Meade County, Mercer County,
	Nelson County, Newport Independent, Nicholas County,
	Owen County, Paris Independent, Pendleton County,
	Powell County, Shelby County, Silver Grove Independent,
	Trimble County, Washington County

Construction

Cement Masons and Concrete Finishers	
Aligned Pathways Bricklayer Assistant, Construction Forms Assistant, Mason Apprentice	Bellevue Independent, Bullitt County, Campbell County, Dayton Independent, Fort Thomas Independent, Jefferson County, Pendleton County, Silver Grove
8 District(s) have Access to Pathways which Lead to this Occupation	Independent
13.3% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Construction Laborers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

55 District(s) have Access to Pathways which Lead to this Occupation

91.7% of Districts in Region

50 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Construction

Construction Managers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

55 District(s) have Access to Pathways which Lead to this Occupation

91.7% of Districts in Region

50 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Cost Estimators

Aligned Pathways

Architectural Designer, Automated Wood Processer, Bricklayer Assistant, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Civil Designer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Furniture Maker, Industrial Electrician Assistant, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

50 District(s) have Access to Pathways which Lead to this Occupation

83.3% of Districts in Region

26 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Shelby County, Silver Grove Independent, Trimble County, Walton-Verona Independent, Washington County

Construction

Electrical Power-Line Installers and Repairers Aligned Pathways Electrical Engineering, Electrician Assistant 11 District(s) have Access to Pathways which Lead to this Occupation 18.3% of Districts in Region 6 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district) Anderson County, Bullitt County, Carroll County, Elizabethtown Independent, Fayette County, Gallatin County, Grant County, Henry County, Mercer County, Owen County, Trimble County

Construction

Electricians

Aligned Pathways

Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Industrial Electrician Assistant, Residential Electrician

30 District(s) have Access to Pathways which Lead to this Occupation

50% of Districts in Region

11 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Boyle County, Bullitt County, Campbell County, Carroll County, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Gallatin County, Garrard County, Grant County, Henry County, Jefferson County, Kenton County, Lincoln County, Madison County, Mercer County, Owen County, Pendleton County, Silver Grove Independent, Trimble County, Walton-Verona Independent

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

57 District(s) have Access to Pathways which Lead to this Occupation

95% of Districts in Region

94 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Construction

Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Aligned Pathways

Electrical Engineering, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Industrial Maintenance Electrical Technician, Maintenance Mechanic, Refrigeration Mechanic, Refrigeration Technician

26 District(s) have Access to Pathways which Lead to this Occupation

43.3% of Districts in Region

13 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Bourbon County, Boyle County, Carroll County, Clark County, Danville Independent, Eminence Independent, Fayette County, Gallatin County, Garrard County, Harrison County, Henry County, Jefferson County, Kenton County, Lincoln County, Marion County, Meade County, Nelson County, Nicholas County, Owen County, Paris Independent, Powell County, Shelby County, Spencer County, Trimble County, Washington County

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways	Beechwood Independent, Boone County, Bourbon
Agricultural Power, Structural, Technical Systems, Diesel	County, Boyle County, Bullitt County, Carroll County,
Brake Repairer/Basic Automotive Electricity, Diesel	Clark County, Erlanger-Elsmere Independ, Fayette
Engine/ElectricianTechnician/Basic Automotive Electricity	County, Gallatin County, Garrard County, Hardin County,
Option, Heavy Equipment Sciences	Harrison County, Henry County, Jefferson County,
30 District(s) have Access to Pathways which Lead to this	Jessamine County, Kenton County, LaRue County, Lincoln
Occupation	County, Madison County, Mercer County, Nelson County,
50% of Districts in Region	Nicholas County, Oldham County, Owen County, Scott
29 School(s) Offer Pathways which Lead to this	County, Spencer County, Trimble County, Walton-Verona
Occupation (Note: A school may serve more than one district)	Independent, Woodford County

Construction

Insulation Workers, Mechanical	
Aligned Pathways	Bardstown Independent, Jefferson County, Meade
Environmental Control System Servicer Assistant,	County, Nelson County
Refrigeration Mechanic, Refrigeration Technician	
4 District(s) have Access to Pathways which Lead to this	
Occupation	
6.7% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Construction

Operating Engineers and Other Construction Equipment Operators	
Aligned Pathways	Bourbon County, Boyle County, Bullitt County, Carroll
Agricultural Power, Structural, Technical Systems, Heavy	County, Clark County, Fayette County, Gallatin County,
Equipment Sciences	Garrard County, Hardin County, Harrison County, Henry
25 District(s) have Access to Pathways which Lead to this	County, Jefferson County, Jessamine County, LaRue
Occupation	County, Lincoln County, Madison County, Mercer County,
41.7% of Districts in Region	Nelson County, Nicholas County, Oldham County, Owen
28 School(s) Offer Pathways which Lead to this	County, Scott County, Spencer County, Trimble County,
Occupation (Note: A school may serve more than one district)	Woodford County

Plumbers, Pipefitters, and Steamfitters

Aligned Pathways

Combination Arc Welder, Environmental Control System Servicer Assistant, Gas Metal Arc Welder, Natural Gas Pipeline, Plumber Assistant, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

46 District(s) have Access to Pathways which Lead to this Occupation

76.7% of Districts in Region

25 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Owen County, Paris Independent, Pendleton County, Silver Grove Independent, Trimble County, Walton-Verona Independent, Washington County

Construction

Roofers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Residential Carpenter Assistant, Residential Maintenance Carpenter Assistant

49 District(s) have Access to Pathways which Lead to this Occupation

81.7% of Districts in Region

48 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Bellevue Independent, Berea Independent, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Washington County, Woodford County

Sheet Metal Workers

Aligned Pathways

Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering

46 District(s) have Access to Pathways which Lead to this Occupation

76.7% of Districts in Region

25 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Owen County, Paris Independent, Pendleton County, Silver Grove Independent, Trimble County, Walton-Verona Independent, Washington County

Construction

Supervisors of Construction and Extraction Workers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

55 District(s) have Access to Pathways which Lead to this Occupation

91.7% of Districts in Region

50 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Telecommunications Line Installers and Repairers	
Aligned Pathways	Anderson County, Bullitt County, Carroll County,
Electrical Engineering, Electrician Assistant	Elizabethtown Independent, Fayette County, Gallatin
11 District(s) have Access to Pathways which Lead to this	County, Grant County, Henry County, Mercer County,
Occupation	Owen County, Trimble County
18.3% of Districts in Region	
6 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Construction

Welders, Cutters, Solderers, and Brazers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

52 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

49 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Scott County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Childcare Workers	
Aligned Pathways	Anderson County, Bardstown Independent, Berea
Early Childhood Education	Independent, Boone County, Bourbon County, Boyle
33 District(s) have Access to Pathways which Lead to this	County, Bullitt County, Burgin Independent, Campbell
Occupation	County, Clark County, Elizabethtown Independent,
55% of Districts in Region	Fayette County, Fort Thomas Independent, Franklin
45 School(s) Offer Pathways which Lead to this	County, Grant County, Grayson County, Hardin County,
Occupation (Note: A school may serve more than one district)	Harrison County, Jefferson County, Jessamine County,
·	Lincoln County, Madison County, Marion County, Meade
	County, Mercer County, Newport Independent, Nicholas
	County, Pendleton County, Powell County, Scott County,
	Shelby County, Spencer County, Washington County

Healthcare

Dental Assistants	
Aligned Pathways	Bardstown Independent, Berea Independent, Bourbon
Allied Health, Dental Technology	County, Breckinridge County, Bullitt County, Carroll
32 District(s) have Access to Pathways which Lead to this	County, Covington Independent, Eminence Independent,
Occupation	Estill County, Fayette County, Franklin County, Gallatin
53.3% of Districts in Region	County, Grant County, Grayson County, Hardin County,
27 School(s) Offer Pathways which Lead to this	Harrison County, Henry County, Jefferson County,
Occupation (Note: A school may serve more than one district)	Jessamine County, Madison County, Marion County,
	Nelson County, Nicholas County, Oldham County, Owen
	County, Paris Independent, Powell County, Scott County,
	Shelby County, Spencer County, Trimble County,
	Washington County

<u>Healthcare</u>

Dental Hygientists	
Aligned Pathways	Bardstown Independent, Berea Independent, Bourbon
Allied Health, Dental Technology	County, Breckinridge County, Bullitt County, Carroll
32 District(s) have Access to Pathways which Lead to this	County, Covington Independent, Eminence Independent,
Occupation	Estill County, Fayette County, Franklin County, Gallatin
53.3% of Districts in Region	County, Grant County, Grayson County, Hardin County,
27 School(s) Offer Pathways which Lead to this	Harrison County, Henry County, Jefferson County,
Occupation (Note: A school may serve more than one district)	Jessamine County, Madison County, Marion County,
	Nelson County, Nicholas County, Oldham County, Owen
	County, Paris Independent, Powell County, Scott County,
	Shelby County, Spencer County, Trimble County,
	Washington County

Family and General Practitioners	
Aligned Pathways	Boone County, Carroll County, Clark County, Covington
PLTW Biomedical Sciences	Independent, Grant County, Jefferson County, Jessamine
11 District(s) have Access to Pathways which Lead to this	County, Kenton County, Oldham County, Scott County,
Occupation	Shelby County
18.3% of Districts in Region	
16 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Healthcare

Aligned Pathways Administrative Support, Agribusiness Systems, Information Processing, Management Entrepreneurship, Medical Administrative Assisting 50 District(s) have Access to Pathways which Lead to this Occupation 83.3% of Districts in Region

74 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Pendleton County, Powell County, Scott County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Healthcare Managers

Aligned Pathways

Medical Administrative Assisting, Pre-Nursing

51 District(s) have Access to Pathways which Lead to this Occupation

85% of Districts in Region

36 School(s) Offer Pathways which Lead to this

Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Owen County, Paris Independent, Pendleton County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Healthcare

Licensed Practical and Licensed Vocational Nurses

Aligned Pathways

Pre-Nursing

51 District(s) have Access to Pathways which Lead to this Occupation

85% of Districts in Region

36 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Owen County, Paris Independent, Pendleton County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Medical and Clinical Laboratory Technologists	
Aligned Pathways	Boone County, Carroll County, Clark County, Covington
Phlebotomy Technician, PLTW Biomedical Sciences	Independent, Grant County, Hardin County, Jefferson
13 District(s) have Access to Pathways which Lead to this	County, Jessamine County, Kenton County, Oldham
Occupation	County, Scott County, Shelby County, Spencer County
21.7% of Districts in Region	
20 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

<u>Healthcare</u>

Medical and Clinical Laboratory Technicians	
Aligned Pathways	Boone County, Carroll County, Clark County, Covington
Phlebotomy Technician, PLTW Biomedical Sciences	Independent, Grant County, Hardin County, Jefferson
13 District(s) have Access to Pathways which Lead to this	County, Jessamine County, Kenton County, Oldham
Occupation	County, Scott County, Shelby County, Spencer County
21.7% of Districts in Region	
20 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

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Medical Assistants	
Aligned Pathways	Anderson County, Bardstown Independent, Beechwood
Allied Health, Medical Administrative Assisting, Pre-	Independent, Bellevue Independent, Berea Independent,
Nursing	Boone County, Bourbon County, Boyle County,
53 District(s) have Access to Pathways which Lead to this	Breckinridge County, Bullitt County, Campbell County,
Occupation	Carroll County, Clark County, Cloverport Independent,
88.3% of Districts in Region	Covington Independent, Danville Independent, Dayton
44 School(s) Offer Pathways which Lead to this	Independent, Eminence Independent, Erlanger-Elsmere
Occupation (Note: A school may serve more than one district)	Independ, Estill County, Fayette County, Fort Thomas
	Independent, Franklin County, Gallatin County, Garrard
	County, Grant County, Grayson County, Hardin County,
	Harrison County, Henry County, Jefferson County,
	Jessamine County, Kenton County, Lincoln County,
	Madison County, Marion County, Meade County, Mercer
	County, Nelson County, Nicholas County, Oldham County,
	Owen County, Paris Independent, Pendleton County,
	Powell County, Scott County, Shelby County, Silver Grove
	Independent, Spencer County, Trimble County, Walton-
	Verona Independent, Washington County, Woodford
	County

Medical Records and Health Information Technicians

Aligned Pathways

Administrative Support, Informatics, Medical Administrative Assisting, Medical Business Office

42 District(s) have Access to Pathways which Lead to this Occupation

70% of Districts in Region

52 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Hardin County, Henry County, Jefferson County, Kenton County, Kentucky School for the Deaf, Lincoln County, Madison County, Meade County, Nelson County, Newport Independent, Nicholas County, Owen County, Pendleton County, Powell County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent

Healthcare

Medical Secretaries

Aligned Pathways

Administrative Support, Information Processing, Medical Administrative Assisting, Medical Business Office

41 District(s) have Access to Pathways which Lead to this Occupation

68.3% of Districts in Region

58 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Berea Independent, Boone County, Bourbon County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Henry County, Jefferson County, Kenton County, Lincoln County, Madison County, Meade County, Nelson County, Newport Independent, Nicholas County, Owen County, Pendleton County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent

Nurse Practitioners

Aligned Pathways

Pre-Nursing

51 District(s) have Access to Pathways which Lead to this Occupation

85% of Districts in Region

36 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Owen County, Paris Independent, Pendleton County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Healthcare

Nursing Assistants

Aligned Pathways

Pre-Nursing

51 District(s) have Access to Pathways which Lead to this Occupation

85% of Districts in Region

36 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Owen County, Paris Independent, Pendleton County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Personal Care Aides	
Aligned Pathways	Anderson County, Bardstown Independent, Beechwood
Allied Health, Pre-Nursing	Independent, Bellevue Independent, Berea Independent,
53 District(s) have Access to Pathways which Lead to this	Boone County, Bourbon County, Boyle County,
Occupation	Breckinridge County, Bullitt County, Campbell County,
88.3% of Districts in Region	Carroll County, Clark County, Cloverport Independent,
44 School(s) Offer Pathways which Lead to this	Covington Independent, Danville Independent, Dayton
Occupation (Note: A school may serve more than one district)	Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas
	Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County,
	Harrison County, Henry County, Jefferson County,
	Jessamine County, Kenton County, Lincoln County,
	Madison County, Marion County, Meade County, Mercer
	County, Nelson County, Nicholas County, Oldham County,
	Owen County, Paris Independent, Pendleton County,
	Powell County, Scott County, Shelby County, Silver Grove
	Independent, Spencer County, Trimble County, Walton-
	Verona Independent, Washington County, Woodford
	County

<u>Healthcare</u>

Physical Therapists	
Aligned Pathways	Eminence Independent, Hardin County, Jefferson County,
Sports Medicine	Oldham County, Shelby County, Spencer County
6 District(s) have Access to Pathways which Lead to this	
Occupation	
10% of Districts in Region	
8 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Physicians and Surgeons, All Other	
Aligned Pathways	Boone County, Carroll County, Clark County, Covington
PLTW Biomedical Sciences	Independent, Grant County, Jefferson County, Jessamine
11 District(s) have Access to Pathways which Lead to this	County, Kenton County, Oldham County, Scott County,
Occupation	Shelby County
18.3% of Districts in Region	
16 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Registered Nurses Aligned Pathways Pre-Nursing 51 District(s) have Access to Pathways which Lead to this Occupation 85% of Districts in Region

36 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Owen County, Paris Independent, Pendleton County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Social and Human Service Assistants	
Aligned Pathways	Anderson County, Bardstown Independent, Beechwood
Consumer & Family Management	Independent, Boone County, Boyle County, Breckinridge
35 District(s) have Access to Pathways which Lead to this	County, Burgin Independent, Campbell County, Clark
Occupation	County, Estill County, Fayette County, Fort Thomas
58.3% of Districts in Region	Independent, Franklin County, Garrard County, Grayson
46 School(s) Offer Pathways which Lead to this	County, Hardin County, Harrison County, Jefferson
Occupation (Note: A school may serve more than one district)	County, Jessamine County, Kenton County, Madison
	County, Marion County, Meade County, Mercer County,
	Newport Independent, Oldham County, Paris
	Independent, Pendleton County, Powell County, Scott
	County, Shelby County, Spencer County, Walton-Verona
	Independent, Washington County, Woodford County

Social Workers	
Aligned Pathways	Anderson County, Bardstown Independent, Beechwood
Consumer & Family Management	Independent, Boone County, Boyle County, Breckinridge
35 District(s) have Access to Pathways which Lead to this	County, Burgin Independent, Campbell County, Clark
Occupation	County, Estill County, Fayette County, Fort Thomas
58.3% of Districts in Region	Independent, Franklin County, Garrard County, Grayson
46 School(s) Offer Pathways which Lead to this	County, Hardin County, Harrison County, Jefferson
Occupation (Note: A school may serve more than one district)	County, Jessamine County, Kenton County, Madison
	County, Marion County, Meade County, Mercer County,
	Newport Independent, Oldham County, Paris
	Independent, Pendleton County, Powell County, Scott
	County, Shelby County, Spencer County, Walton-Verona
	Independent, Washington County, Woodford County

Aircraft Mechanics and Service Technicians	
Aligned Pathways	Boone County, Frankfort Independent, Jefferson County,
Aeronautical Engineering, Aircraft Maintenance	Spencer County, Williamstown Independent
Technician	
5 District(s) have Access to Pathways which Lead to this	
Occupation	
8.3% of Districts in Region	
5 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Transportation and Logistics

Airline Pilots, Copilots, and Flight Engineers	
Aligned Pathways	Bullitt County, Frankfort Independent, Jefferson County,
Flight & Aeronautics	Spencer County, Trimble County, Washington County,
7 District(s) have Access to Pathways which Lead to this	Williamstown Independent
Occupation	
11.7% of Districts in Region	
7 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Transportation and Logistics

Bus and Truck Mechanics and Diesel Engine Specialists	
Aligned Pathways	Beechwood Independent, Boone County, Bourbon
Agricultural Power, Structural, Technical Systems,	County, Boyle County, Bullitt County, Carroll County,
Automotive Engineering/Automotive Maintenance and	Clark County, Erlanger-Elsmere Independ, Fayette
Light Repair, Diesel Brake Repairer/Basic Automotive	County, Gallatin County, Garrard County, Hardin County,
Electricity, Diesel Engine/ElectricianTechnician/Basic	Harrison County, Henry County, Jessamine County,
Automotive Electricity Option	Kenton County, LaRue County, Lincoln County, Madison
29 District(s) have Access to Pathways which Lead to this	County, Mercer County, Nelson County, Nicholas County,
Occupation	Oldham County, Owen County, Scott County, Spencer
48.3% of Districts in Region	County, Trimble County, Walton-Verona Independent,
29 School(s) Offer Pathways which Lead to this	Woodford County
Occupation (Note: A school may serve more than one district)	

Dispatchers, Except Police, Fire, and Ambulance

Aligned Pathways

Automobile Service Technician, Automotive Engineering/Automotive Maintenance and Light Repair, Automotive Maintenance and Light Repair Technician, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Entry Level Non-Structural Damage and Repair Technician

48 District(s) have Access to Pathways which Lead to this Occupation

80% of Districts in Region

25 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Kenton County, Lincoln County, Madison County, Marion County, Meade County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County

Transportation and Logistics

First-Line Supervisors

Aligned Pathways

Agribusiness Systems, Business Management, Management Entrepreneurship, Marketing

49 District(s) have Access to Pathways which Lead to this Occupation

81.7% of Districts in Region

77 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Elizabethtown Independent, Eminence Independent, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Spencer County, Trimble County, Walton-Verona Independent, Washington County, **Woodford County**

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

57 District(s) have Access to Pathways which Lead to this Occupation

95% of Districts in Region

94 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Burgin Independent, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Newport Independent, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Transportation and Logistics

Heavy and Tractor-Trailer Truck Drivers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences

30 District(s) have Access to Pathways which Lead to this Occupation

50% of Districts in Region

29 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Beechwood Independent, Boone County, Bourbon County, Boyle County, Bullitt County, Carroll County, Clark County, Erlanger-Elsmere Independ, Fayette County, Gallatin County, Garrard County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, LaRue County, Lincoln County, Madison County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Scott County, Spencer County, Trimble County, Walton-Verona Independent, Woodford County

Industrial Truck and Tractor Operators		
Aligned Pathways	Bourbon County, Boyle County, Bullitt County, Carroll	
Agricultural Power, Structural, Technical Systems, Heavy	County, Clark County, Fayette County, Gallatin County,	
Equipment Sciences	Garrard County, Hardin County, Harrison County, Henry	
25 District(s) have Access to Pathways which Lead to this	County, Jefferson County, Jessamine County, LaRue	
Occupation	County, Lincoln County, Madison County, Mercer County,	
41.7% of Districts in Region	Nelson County, Nicholas County, Oldham County, Owen	
28 School(s) Offer Pathways which Lead to this	County, Scott County, Spencer County, Trimble County,	
Occupation (Note: A school may serve more than one district)	Woodford County	

Transportation and Logistics

Laborers, Packers, Movers	
Aligned Pathways	Jefferson County
Global Logistics	
1 District(s) have Access to Pathways which Lead to this	
Occupation	
1.7% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Transportation and Logistics

Machine Feeders and Offbearers		
Aligned Pathways	Jefferson County	
Global Logistics		
1 District(s) have Access to Pathways which Lead to this		
Occupation		
1.7% of Districts in Region		
1 School(s) Offer Pathways which Lead to this Occupation		
(Note: A school may serve more than one district)		

Transportation and Logistics

Maintenance and Repair Workers, General

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Combination Arc Welder, Computer Numerical Control
(CNC) Operator, Computer Numerical Control (CNC)
Programmer, Fluid Power Mechanic, Gas Metal Arc
Welder, Industrial Maintenance Electrical Technician,
Machinist Operator, Machinist Technician, Maintenance
Machinist, Maintenance Mechanic, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician,
Shielded Metal Arc Welder, Welder - Entry Level, Welding
Pipefitters TRACK

56 District(s) have Access to Pathways which Lead to this Occupation

93.3% of Districts in Region

57 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Anderson County, Bardstown Independent, Beechwood Independent, Bellevue Independent, Berea Independent, Boone County, Bourbon County, Boyle County, Breckinridge County, Bullitt County, Campbell County, Carroll County, Clark County, Cloverport Independent, Covington Independent, Danville Independent, Dayton Independent, Elizabethtown Independent, Eminence Independent, Erlanger-Elsmere Independ, Estill County, Fayette County, Fort Thomas Independent, Franklin County, Gallatin County, Garrard County, Grant County, Grayson County, Hardin County, Harrison County, Henry County, Jefferson County, Jessamine County, Kenton County, Kentucky School for the Deaf, LaRue County, Lincoln County, Madison County, Marion County, Meade County, Mercer County, Nelson County, Nicholas County, Oldham County, Owen County, Paris Independent, Pendleton County, Powell County, Scott County, Shelby County, Silver Grove Independent, Spencer County, Trimble County, Walton-Verona Independent, Washington County, Woodford County

Transportation and Logistics

Reservation and Transportation Ticket Agents and Travel Clerks

Aligned Pathways

Hospitality Services, Hospitality, Travel, Tourism & Recreation, Marketing

25 District(s) have Access to Pathways which Lead to this Occupation

41.7% of Districts in Region

31 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Berea Independent, Boone County, Bourbon County, Boyle County, Bullitt County, Campbell County, Clark County, Danville Independent, Estill County, Fayette County, Franklin County, Gallatin County, Grayson County, Hardin County, Jefferson County, Jessamine County, Lincoln County, Madison County, Meade County, Newport Independent, Oldham County, Pendleton County, Scott County, Williamstown Independent, Woodford County

Transportation and Logistics

Sales Representatives, Services, All Other

Aligned Pathways

Agribusiness Systems, Marketing, Retail/Wholesaling

32 District(s) have Access to Pathways which Lead to this Occupation

53.3% of Districts in Region

43 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Berea Independent, Boone County, Bourbon County,
Boyle County, Bullitt County, Burgin Independent,
Campbell County, Clark County, Danville Independent,
Estill County, Fayette County, Franklin County, Gallatin
County, Grayson County, Hardin County, Harrison County,
Jefferson County, Jessamine County, Lincoln County,
Madison County, Marion County, Meade County, Mercer
County, Nelson County, Newport Independent, Oldham
County, Pendleton County, Scott County, Spencer County,
Walton-Verona Independent, Washington County,
Woodford County

Transportation and Logistics

Stock, Shipping, and Receiving Clerks	
Aligned Pathways	Boone County, Bourbon County, Boyle County,
Agribusiness Systems, Business Management,	Breckinridge County, Bullitt County, Burgin Independent,
Retail/Wholesaling	Campbell County, Carroll County, Cloverport
45 District(s) have Access to Pathways which Lead to this	Independent, Covington Independent, Elizabethtown
Occupation	Independent, Eminence Independent, Estill County,
75% of Districts in Region	Fayette County, Fort Thomas Independent, Franklin
67 School(s) Offer Pathways which Lead to this	County, Gallatin County, Garrard County, Grant County,
Occupation (Note: A school may serve more than one district)	Hardin County, Harrison County, Henry County, Jefferson
	County, Jessamine County, Kenton County, LaRue County,
	Lincoln County, Madison County, Marion County, Meade
	County, Mercer County, Nelson County, Nicholas County,
	Oldham County, Owen County, Paris Independent,
	Pendleton County, Powell County, Scott County, Shelby
	County, Spencer County, Trimble County, Walton-Verona
	Independent, Washington County, Woodford County

Transportation and Logistics

Transportation, Storage, and Distribution Managers	
Aligned Pathways	Jefferson County
Global Logistics	
1 District(s) have Access to Pathways which Lead to this	
Occupation	
1.7% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Top Occupation Needs in High-Demand Sectors Not Met by District Offerings

- Bus Drivers
- Cargo and Freight Agents
- Chemical Plant and System Operators
- Flight Attendants
- Light Truck or Delivery Services Drivers
- Painters, Construction and Maintenance
- Postal Service Mail Carriers

KENTUCKY'S <u>CENTRAL REGION</u> HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

Central Region (4 KCTCS Institutions)

Advanced Manufacturing

Chemical Plant and System Operators	
Aligned Pathways	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE
Applied Process Technologies	
25% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Electricians	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
MIT: Electrical Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Advanced Manufacturing

First-Line Supervisors of Production and Operating Workers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Advanced Manufacturing

Industrial Engineering Technicians	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Computer Aided Drafting and Design, Quality	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Management Systems	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Advanced Manufacturing

Inspectors, Testers, Sorters, Samplers, and Weighers	
Aligned Pathways	ELIZABETHTOWN COMMUNITY AND TECHNICAL COLLEGE
Quality Management Systems	
25% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Machine Tool Operator	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Computerized Manufacturing and Machining	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Advanced Manufacturing

Machinist	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Computerized Manufacturing and Machining	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Advanced Manufacturing

Welders	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Welding Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Computer User Support Specialists	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Computer & Information Technologies, Engineering and	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Electronics Technology	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Business and IT Services

Customer Service Representatives	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Business and IT Services

General and Operations Managers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Business and IT Services

General Office Clerks	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Administrative Office Technology,	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Business Studies - Business Administration Systems	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Administrative Office Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Administrative Office Technology,	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Business Studies - Business Administration Systems	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Business and IT Services

Tax Preparers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Carpenters	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Construction Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
75% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
3 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Construction

Electrical Power-Line Installers and Repairers	
Aligned Pathways	GATEWAY COMMUNITY AND TECHNICAL COLLEGE,
Applied Process Technologies, Energy Technologies	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE
50% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Construction

Electricians	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
MIT: Electrical Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Construction

General and Operations Managers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Construction

Heating, Air Conditioning, and Refrigeration Mechanics and Installers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Air Conditioning Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
,	COLLEGE

Painters, Construction and Maintenance	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Construction Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
75% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
3 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Construction

Plumbers, Pipefitters, and Steamfitters	
Aligned Pathways	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Plumbing Technology	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
75% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
3 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Construction

Roofers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Construction Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
75% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
3 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Construction

Telecommunications Line Installers and Repairers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Energy Technologies, Engineering and Electronics	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Technology, MIT: Electrical Technology	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Construction

Welders, Cutters, Solderers, and Brazers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Welding Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Childcare Workers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Interdisciplinary Early Childhood Education	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
, , , , , , , , , , , , , , , , , , ,	COLLEGE

Healthcare

Dental Assistants	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE
Dental Assisting/Dental Hygiene Integrated Program	
25% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Dental Hygientists	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE
Dental Assisting/Dental Hygiene Integrated Program	
25% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

<u>Healthcare</u>

First-Line Supervisors of Office and Administrative Support Workers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Medical Information Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Healthcare

Licensed Practical and Licensed Vocational Nurses	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Nursing – Academic/Career Mobility Program	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Medical Assistants	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Medical Assisting	GATEWAY COMMUNITY AND TECHNICAL COLLEGE,
75% of Schools in KCTCS	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE
3 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Medical Records and Health Information Technicians	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems,	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Business Studies - Medical Information Technology,	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
Health Information Technology	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE
4 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Medical Secretaries	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Medical Information Technology,	ELIZABETHTOWN COMMUNITY AND TECHNICAL
Health Information Technology, Medical Assisting	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE

Healthcare

Nursing Assistants	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Nursing - Integrated Nursing	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Healthcare

Registered Nurses	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Nursing	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
, , , , , , , , , , , , , , , , , , , ,	COLLEGE

Transportation and Logistics

Aircraft Mechanics and Service Technicians	
Aligned Pathways	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE
Aviation Maintenance Technology	
25% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Transportation and Logistics

Bus and Truck Mechanics and Diesel Engine Specialists		
Aligned Pathways	ELIZABETHTOWN COMMUNITY AND TECHNICAL	
Diesel Technology	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL	
50% of Schools in KCTCS	COLLEGE	
2 School(s) Offer Pathways which Lead to this Occupation		

Transportation and Logistics

General and Operations Managers	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
Business Studies - Business Administration Systems	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
	COLLEGE

Transportation and Logistics

Maintenance and Repair Workers, General	
Aligned Pathways	BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE,
MIT: Industrial Maintenance Technology	ELIZABETHTOWN COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, GATEWAY COMMUNITY AND TECHNICAL
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, JEFFERSON COMMUNITY AND TECHNICAL
, , ,	COLLEGE

East Region

with Postsecondary Institutions and Technology Centers

Technology Centers

- ♦ KY Tech ATC Operated by KDE (53)
- ♦ CTC Operated Locally (42)*

Colleges and Universities

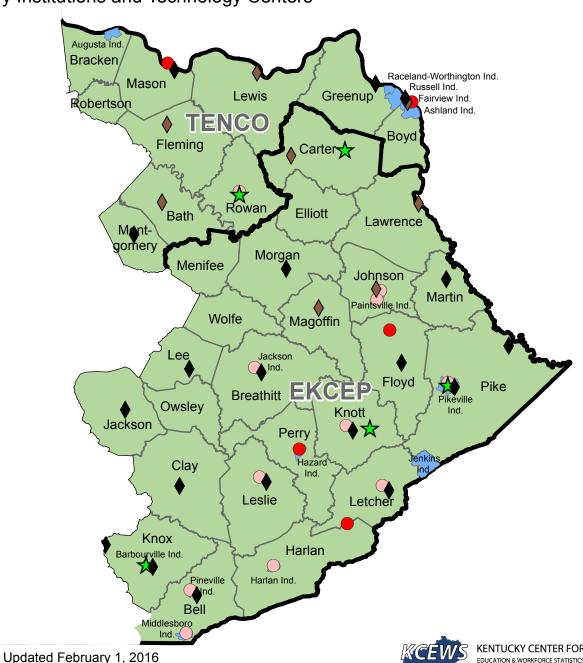
- 4-Year Public and Independent Main Campus
- 2-Year Public (KCTCS) Main Campus
- 2-Year Public (KCTCS) Secondary Campus*

Independent School Districts

Independent School Districts

WIOA Boundaries

WIOA Boundaries



	East Region High-Demand Industry Sectors and Top Occupations					
	Business & IT Services	Construction	Healthcare	Advanced Manufacturing	Transportation & Logistics	
	This sector comprises professional and financial services, information technology, wholesale trade, and scientific and technical occupations.	This sector comprises occupations primarily engaged in the constuction and maintenance of buildings.	This sector comprises both health care services and social assistance.	This sector comprises occupations in the mechanical, physical or chemicial transformation of materials, substances or components into new products.	This sector comprises occupations in industries providing movement of passengers or cargo, warehousing and storage, and those that plan, direct or coordinate the distribution activities of products.	
_	Accountants and Auditors	Construction Laborers	Registered Nurses	Manufacturing Operator/Technician	Heavy and Tractor-Trailer Truck Drivers	S H .
0	Managers, All Other	Carpenters	Personal Care Aides	Machine Maintenance Specialist	Laborers, Packers, Movers	i k i i g i
р	Lawyers	Electricians	Nursing Assistants	Machinist	Captains, Mates, and Pilots of Water Vessels	h
O c	Software Developers, Applications	Painters, Construction and Maintenance	Emergency Medical Technicians and Paramedics	Engineers - Process/Manufacturing	Postal Service Mail Carriers	M _
C	Management Analysts	Construction Managers	Medical Assistants	Inspectors, Testers, Sorters, Samplers, and Weighers	First-Line Supervisors	i S d k
u p	Computer Systems Analysts	Operating Engineers and Other Construction Equipment Operators	Licensed Practical and Licensed Vocational Nurses	Machine Tool Operator	Industrial Truck and Tractor Operators	d I
a t	Paralegals and Legal Assistants	Plumbers, Pipefitters, and Steamfitters	Childcare Workers	Petroleum Pump System Operators, Refinery Operators, and Gaugers	Light Truck or Delivery Services Drivers	е '
i o	General and Operations Managers	Supervisors of Construction and Extraction Workers	Social Workers	Welders	Sailors and Marine Oilers	S
n	Software Developers, Systems Software	Electrical Power-Line Installers and Repairers	Physicians and Surgeons, All Other	Food Batchmakers	Bus Drivers	L K o i
S	Civil Engineers	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Healthcare Managers	Engineers - Design	Stock, Shipping, and Receiving Clerks	WI
	*To	p 20 Occupations based on the Forecasted Number of		5 years. Occupations not industry specific were remo	oved.	
			Support Sectors			
	Retail Trade	Educational Services	Public Administration	Government	Accomodation and Food Services	
	Energy	Entrepreneurship				

KENTUCKY'S EAST REGION HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

East Region (46 Districts Participating in CTE)

Advanced Manufacturing

Engineers - Design

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automotive Engineering/Automotive Maintenance and
Light Repair, Computer Numerical Control (CNC)
Programmer, Electrical Engineering, Engineering &
Technology Design, Fluid Power Mechanic, Industrial
Maintenance Electrical Technician, Machinist Operator,
Machinist Technician, Maintenance Machinist,
Maintenance Mechanic, Manufacturing Engineering
Technology Technician, Mechanical Designer, Project
Lead the Way (PLTW) - Engineering, Robotics &
Automation

29 District(s) have Access to Pathways which Lead to this Occupation

63% of Districts in Region

33 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Bath
County, Boyd County, Bracken County, Breathitt County,
Carter County, Clay County, Elliott County, Fairview
Independent, Fleming County, Harlan County, Johnson
County, Knox County, Lawrence County, Lee County,
Lewis County, Mason County, Menifee County,
Middlesboro Independent, Montgomery County, Morgan
County, Perry County, Pike County, Pikeville Independent,
Raceland Independent, Robertson County, Rowan
County, Russell Independent

Advanced Manufacturing

Engineers - Process/Manufacturing

Aligned Pathways

Electrical Engineering, Engineering & Technology Design, Manufacturing Engineering Technology Technician, Project Lead the Way (PLTW) - Engineering, Robotics & Automation

22 District(s) have Access to Pathways which Lead to this Occupation

47.8% of Districts in Region

22 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Boyd County, Breathitt County, Clay County, Elliott County, Fairview Independent, Fleming County, Johnson County, Knox County, Lawrence County, Lee County, Lewis County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Perry County, Pike County, Raceland Independent, Rowan County, Russell Independent

Food Batchmakers	
Aligned Pathways	Morgan County
Agribiotechnology Systems, Food Science and Processing	
Systems	
1 District(s) have Access to Pathways which Lead to this	
Occupation	
2.2% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Advanced Manufacturing

Inspectors, Testers, Sorters, Samplers, and Weighers

Aligned Pathways

Automated Wood Processer, Cabinetmaker, Combination Arc Welder, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Fluid Power Mechanic, Furniture Maker, Gas Metal Arc Welder, Industrial Maintenance Electrical Technician, Industrial Maintenance Welding Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Refrigeration Technician, Retail/Wholesaling, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level

34 District(s) have Access to Pathways which Lead to this Occupation

73.9% of Districts in Region

28 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Boyd County, Bracken County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Jackson County, Knox County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Pike County, Pikeville Independent, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Machine Maintenance Specialist

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Combination Arc Welder, Computer Numerical Control
(CNC) Operator, Computer Numerical Control (CNC)
Programmer, Fluid Power Mechanic, Gas Metal Arc
Welder, Industrial Maintenance Electrical Technician,
Machinist Operator, Machinist Technician, Maintenance
Machinist, Maintenance Mechanic, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician,
Shielded Metal Arc Welder, Welder - Entry Level, Welding
Pipefitters TRACK

36 District(s) have Access to Pathways which Lead to this Occupation

78.3% of Districts in Region

37 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Boyd County, Bracken County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Jackson County, Johnson County, Knox County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Advanced Manufacturing

Machine Tool Operator

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer

20 District(s) have Access to Pathways which Lead to this Occupation

43.5% of Districts in Region

22 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Bath County, Bracken County, Carter County, Elliott County, Fleming County, Harlan County, Johnson County, Knox County, Lewis County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Perry County, Pike County, Robertson County, Rowan County

Machinist

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Computer Numerical Control (CNC) Operator, Computer
Numerical Control (CNC) Programmer, Machinist
Operator, Machinist Technician, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician

20 District(s) have Access to Pathways which Lead to this Occupation

43.5% of Districts in Region

20 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Bath County, Bracken County, Carter County, Elliott County, Fleming County, Harlan County, Johnson County, Knox County, Lewis County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Perry County, Pike County, Robertson County, Rowan County

Advanced Manufacturing

Manufacturing Operator/Technician

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automated Wood Processer, Cabinetmaker, Computer
Numerical Control (CNC) Operator, Computer Numerical
Control (CNC) Programmer, Fluid Power Mechanic,
Furniture Maker, Industrial Maintenance Electrical
Technician, Machinist Operator, Machinist Technician,
Maintenance Machinist, Maintenance Mechanic,
Manufacturing Engineering Technology Technician,
Manufacturing TRACK, Sheet Metal Technician, Welder Entry Level

36 District(s) have Access to Pathways which Lead to this Occupation

78.3% of Districts in Region

37 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Boyd County, Bracken County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Jackson County, Johnson County, Knox County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Advanced Manufacturing

Welders

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

35 District(s) have Access to Pathways which Lead to this Occupation

76.1% of Districts in Region

33 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Boyd County, Bracken County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Jackson County, Johnson County, Knox County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Accountants and Auditors	
Aligned Pathways	Ashland Independent, Bath County, Boyd County,
Accounting, Finance	Bracken County, Carter County, Clay County, Fleming
21 District(s) have Access to Pathways which Lead to this	County, Floyd County, Jackson County, Johnson County,
Occupation	Knox County, Lawrence County, Leslie County, Lewis
45.7% of Districts in Region	County, Mason County, Menifee County, Montgomery
21 School(s) Offer Pathways which Lead to this	County, Perry County, Pike County, Raceland
Occupation (Note: A school may serve more than one district)	Independent, Rowan County

Business and IT Services

Civil Engineers	
Aligned Pathways Agricultural Power, Structural, Technical Systems, Civil Architecture & Construction Technology, Civil Designer, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Project Lead the Way (PLTW) - Engineering	Bath County, Boyd County, Bracken County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Johnson County, Knox County, Lawrence County, Lee County, Lewis County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County,
22 District(s) have Access to Pathways which Lead to this Occupation 47.8% of Districts in Region	Perry County, Raceland Independent, Rowan County, Russell Independent
22 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Business and IT Services

Computer Systems Analysts	
Aligned Pathways	Bath County, Bell County, Carter County, Clay County,
Informatics, Information Support and Services	Elliott County, Harlan County, Johnson County, Knott
18 District(s) have Access to Pathways which Lead to this	County, Magoffin County, Mason County, Menifee
Occupation	County, Middlesboro Independent, Montgomery County,
39.1% of Districts in Region	Morgan County, Pike County, Pikeville Independent,
12 School(s) Offer Pathways which Lead to this	Pineville Independent, Rowan County
Occupation (Note: A school may serve more than one district)	

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

43 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

50 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Bell County, Boyd County, Bracken County, Breathitt County, Carter County, Clay County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Harlan Independent, Jackson County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Martin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Business and IT Services

Management Analysts

Aligned Pathways

Accounting, Agribusiness Systems, Business Management, Management Entrepreneurship

27 District(s) have Access to Pathways which Lead to this Occupation

58.7% of Districts in Region

28 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Boyd County, Bracken County, Carter County, Clay County, Fleming County, Floyd County, Greenup County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Mason County, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Raceland Independent, Rowan County, Wolfe County

Managers, All Other		
Aligned Pathways	Ashland Independent, Bath County, Boyd County,	
Accounting, Agribusiness Systems, Business	Bracken County, Carter County, Clay County, Fleming	
Management, Finance, Hospitality Services, Management	County, Floyd County, Greenup County, Harlan County,	
Entrepreneurship, Retail/Wholesaling	Jackson County, Jackson Independent, Johnson County,	
31 District(s) have Access to Pathways which Lead to this	Knott County, Knox County, Lawrence County, Lee	
Occupation	County, Leslie County, Letcher County, Lewis County,	
67.4% of Districts in Region	Mason County, Menifee County, Montgomery County,	
38 School(s) Offer Pathways which Lead to this	Morgan County, Owsley County, Perry County, Pike	
Occupation (Note: A school may serve more than one district)	County, Pikeville Independent, Raceland Independent,	
	Rowan County, Wolfe County	

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	Carter County, Knox County, Leslie County
Legal Office, Pre-Law Studies	
3 District(s) have Access to Pathways which Lead to this	
Occupation	
6.5% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Business and IT Services

Software Developers, Applications	
Aligned Pathways	Boyd County, Bracken County, Carter County, Clay
Computer Programming, Computer Science, Digital	County, Elliott County, Fairview Independent, Fleming
Design and Game Development, Web	County, Floyd County, Greenup County, Harlan County,
Development/Administration	Hazard Independent, Johnson County, Knott County,
28 District(s) have Access to Pathways which Lead to this	Knox County, Lee County, Leslie County, Martin County,
Occupation	Mason County, Menifee County, Morgan County,
60.9% of Districts in Region	Paintsville Independent, Perry County, Pike County,
21 School(s) Offer Pathways which Lead to this	Pikeville Independent, Raceland Independent, Rowan
Occupation (Note: A school may serve more than one district)	County, Russell Independent, Wolfe County

Business and IT Services

Software Developers, Systems Software	
Aligned Pathways	Boyd County, Bracken County, Carter County, Clay
Computer Programming, Computer Science, Digital	County, Elliott County, Fairview Independent, Fleming
Design and Game Development, Network Security, Web	County, Floyd County, Greenup County, Harlan County,
Development/Administration	Hazard Independent, Johnson County, Knott County,
28 District(s) have Access to Pathways which Lead to this	Knox County, Lee County, Leslie County, Martin County,
Occupation	Mason County, Menifee County, Morgan County,
60.9% of Districts in Region	Paintsville Independent, Perry County, Pike County,
21 School(s) Offer Pathways which Lead to this	Pikeville Independent, Raceland Independent, Rowan
Occupation (Note: A school may serve more than one district)	County, Russell Independent, Wolfe County

Carpenters Ashland Independent, Barbourville Independent, Bath **Aligned Pathways** Carpenter Assistant, Carpentry-TRACK, Construction County, Bell County, Boyd County, Breathitt County, Carter County, Clay County, Floyd County, Harlan County, Forms Assistant, Residential Carpenter Assistant, Harlan Independent, Jackson County, Jackson Residential Maintenance Carpenter Assistant Independent, Johnson County, Knott County, Knox 32 District(s) have Access to Pathways which Lead to this County, Lawrence County, Lee County, Leslie County, Occupation Letcher County, Lewis County, Magoffin County, Martin 69.6% of Districts in Region County, Mason County, Menifee County, Middlesboro 22 School(s) Offer Pathways which Lead to this Independent, Montgomery County, Owsley County, Pike Occupation (Note: A school may serve more than one district) County, Pineville Independent, Rowan County, Wolfe

Construction

County

Construction Laborers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

43 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

37 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Bell County, Boyd County, Bracken County, Breathitt County, Carter County, Clay County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Harlan Independent, Jackson County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Martin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Construction Managers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

43 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

37 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Bell County, Boyd County, Bracken County, Breathitt County, Carter County, Clay County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Harlan Independent, Jackson County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Martin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Pineville Independent, Raceland Independent, Wolfe County, Rowan County, Russell Independent, Wolfe County

Construction

Electrical Power-Line Installers and Repairers

Aligned Pathways

Electrical Engineering, Electrician Assistant

24 District(s) have Access to Pathways which Lead to this Occupation

52.2% of Districts in Region

13 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Augusta Independent, Barbourville Independent, Bracken County, Breathitt County, Fairview Independent, Floyd County, Greenup County, Harlan County, Harlan Independent, Jackson Independent, Knox County, Lee County, Leslie County, Letcher County, Magoffin County, Martin County, Mason County, Middlesboro Independent, Owsley County, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Construction

Electricians

Aligned Pathways

Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Industrial Electrician Assistant, Residential Electrician

26 District(s) have Access to Pathways which Lead to this Occupation

56.5% of Districts in Region

15 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Augusta Independent, Barbourville Independent, Bracken County, Breathitt County, Fairview Independent, Floyd County, Greenup County, Harlan County, Harlan Independent, Jackson Independent, Knox County, Lee County, Leslie County, Letcher County, Magoffin County, Martin County, Mason County, Middlesboro Independent, Owsley County, Pike County, Pikeville Independent, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Heating, Air Conditioning, and Refrigeration Mechanics and Installers	
Aligned Pathways Electrical Engineering, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Industrial Maintenance Electrical Technician, Maintenance	Fairview Independent, Floyd County, Letcher County, Mason County, Montgomery County, Pike County, Pikeville Independent, Raceland Independent, Robertson County, Russell Independent
Mechanic, Refrigeration Mechanic, Refrigeration Technician	
10 District(s) have Access to Pathways which Lead to this Occupation	
21.7% of Districts in Region	
6 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Construction

Operating Engineers and Other Construction Equipment Operators	
Aligned Pathways	Bath County, Bracken County, Carter County, Fleming
Agricultural Power, Structural, Technical Systems, Heavy	County, Harlan County, Harlan Independent, Johnson
Equipment Sciences	County, Knox County, Lawrence County, Lewis County,
16 District(s) have Access to Pathways which Lead to this	Menifee County, Middlesboro Independent, Montgomery
Occupation	County, Morgan County, Perry County, Rowan County
34.8% of Districts in Region	
15 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Construction

Painters, Construction and Maintenance	
Aligned Pathways	Knott County
Residential Maintenance Carpenter Assistant	
1 District(s) have Access to Pathways which Lead to this	
Occupation	
2.2% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Plumbers, Pipefitters, and Steamfitters

Aligned Pathways

Combination Arc Welder, Environmental Control System Servicer Assistant, Gas Metal Arc Welder, Natural Gas Pipeline, Plumber Assistant, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

34 District(s) have Access to Pathways which Lead to this Occupation

73.9% of Districts in Region

22 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Boyd County, Bracken County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Jackson County, Knox County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Pike County, Pikeville Independent, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Construction

Supervisors of Construction and Extraction Workers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

43 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

37 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Bell County, Boyd County, Bracken County, Breathitt County, Carter County, Clay County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Harlan Independent, Jackson County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Martin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Robertson County,

Rowan County, Russell Independent, Wolfe County

Childcare Workers	
Aligned Pathways	Ashland Independent, Augusta Independent, Bath
Early Childhood Education	County, Boyd County, Breathitt County, Carter County,
16 District(s) have Access to Pathways which Lead to this	Clay County, Fleming County, Jackson County, Johnson
Occupation	County, Knox County, Letcher County, Mason County,
34.8% of Districts in Region	Morgan County, Perry County, Rowan County
16 School(s) Offer Pathways which Lead to this]
Occupation (Note: A school may serve more than one district)	

<u>Healthcare</u>

Healthcare Managers	
Aligned Pathways	Ashland Independent, Augusta Independent, Barbourville
Medical Administrative Assisting, Pre-Nursing	Independent, Bath County, Bell County, Boyd County,
44 District(s) have Access to Pathways which Lead to this	Bracken County, Breathitt County, Carter County, Clay
Occupation	County, Elliott County, Fairview Independent, Fleming
95.7% of Districts in Region	County, Floyd County, Greenup County, Harlan County,
35 School(s) Offer Pathways which Lead to this	Hazard Independent, Jackson County, Jackson
Occupation (Note: A school may serve more than one district)	Independent, Johnson County, Knott County, Knox
·	County, Lawrence County, Lee County, Leslie County,
	Letcher County, Lewis County, Magoffin County, Martin
	County, Mason County, Menifee County, Middlesboro
	Independent, Montgomery County, Morgan County,
	Owsley County, Perry County, Pike County, Pikeville
	Independent, Pineville Independent, Raceland
	Independent, Robertson County, Rowan County, Russell
	Independent, Wolfe County

<u>Healthcare</u>	
Licensed Practical and Licensed Vocational N	urses
Aligned Pathways Pre-Nursing 44 District(s) have Access to Pathways which Lead to this Occupation 95.7% of Districts in Region 33 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Bell County, Boyd County, Bracken County, Breathitt County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Hazard Independent, Jackson County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Martin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Raceland Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Medical Assistants Aligned Pathways Allied Health, Medical Administrative Assisting, PreNursing 44 District(s) have Access to Pathways which Lead to this Occupation 95.7% of Districts in Region 36 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Bell County, Boyd County, Bracken County, Breathitt County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Hazard Independent, Jackson County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Martin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Robertson County, Rowan County, Russell Independent, Wolfe County

Healthcare

<u> </u>
Ashland Independent, Augusta Independent, Barbourville Independent, Bath County, Bell County, Boyd County, Bracken County, Breathitt County, Carter County, Clay County, Elliott County, Fairview Independent, Fleming County, Floyd County, Greenup County, Harlan County, Hazard Independent, Jackson County, Jackson Independent, Johnson County, Knott County, Knox County, Lawrence County, Lee County, Leslie County, Letcher County, Lewis County, Magoffin County, Martin County, Mason County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Owsley County, Perry County, Pike County, Pikeville Independent, Robertson County, Rowan County, Russell
Independent, Wolfe County

Personal Care Aides	
Aligned Pathways	Ashland Independent, Augusta Independent, Barbourville
Allied Health, Pre-Nursing	Independent, Bath County, Bell County, Boyd County,
44 District(s) have Access to Pathways which Lead to this	Bracken County, Breathitt County, Carter County, Clay
Occupation	County, Elliott County, Fairview Independent, Fleming
95.7% of Districts in Region	County, Floyd County, Greenup County, Harlan County,
34 School(s) Offer Pathways which Lead to this	Hazard Independent, Jackson County, Jackson
Occupation (Note: A school may serve more than one district)	Independent, Johnson County, Knott County, Knox
	County, Lawrence County, Lee County, Leslie County,
	Letcher County, Lewis County, Magoffin County, Martin
	County, Mason County, Menifee County, Middlesboro
	Independent, Montgomery County, Morgan County,
	Owsley County, Perry County, Pike County, Pikeville
	Independent, Pineville Independent, Raceland
	Independent, Robertson County, Rowan County, Russell
	Independent, Wolfe County

Healthcare

Physicians and Surgeons, All Other	
Aligned Pathways	Floyd County, Johnson County, Knox County, Lawrence
PLTW Biomedical Sciences	County, Mason County, Montgomery County
6 District(s) have Access to Pathways which Lead to this]
Occupation	
13% of Districts in Region	
7 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

<u>Healthcare</u>

Registered Nurses	
Aligned Pathways	Ashland Independent, Augusta Independent, Barbourville
Pre-Nursing	Independent, Bath County, Bell County, Boyd County,
44 District(s) have Access to Pathways which Lead to this	Bracken County, Breathitt County, Carter County, Clay
Occupation	County, Elliott County, Fairview Independent, Fleming
95.7% of Districts in Region	County, Floyd County, Greenup County, Harlan County,
33 School(s) Offer Pathways which Lead to this	Hazard Independent, Jackson County, Jackson
Occupation (Note: A school may serve more than one district)	Independent, Johnson County, Knott County, Knox
	County, Lawrence County, Lee County, Leslie County,
	Letcher County, Lewis County, Magoffin County, Martin
	County, Mason County, Menifee County, Middlesboro
	Independent, Montgomery County, Morgan County,
	Owsley County, Perry County, Pike County, Pikeville
	Independent, Pineville Independent, Raceland
	Independent, Robertson County, Rowan County, Russell
	Independent, Wolfe County

Social Workers	
Aligned Pathways	Barbourville Independent, Bell County, Boyd County,
Consumer & Family Management	Bracken County, Breathitt County, Carter County, Clay
27 District(s) have Access to Pathways which Lead to this	County, Elliott County, Fleming County, Floyd County,
Occupation	Hazard Independent, Johnson County, Knott County,
58.7% of Districts in Region	Knox County, Lawrence County, Magoffin County, Mason
27 School(s) Offer Pathways which Lead to this	County, Menifee County, Montgomery County, Morgan
Occupation (Note: A school may serve more than one district)	County, Paintsville Independent, Perry County, Pike
	County, Raceland Independent, Robertson County,
	Rowan County, Russell Independent

Transportation and Logistics

First-Line Supervisors	
Aligned Pathways	Ashland Independent, Boyd County, Bracken County,
Agribusiness Systems, Business Management,	Carter County, Clay County, Fairview Independent,
Management Entrepreneurship, Marketing	Fleming County, Floyd County, Greenup County, Harlan
29 District(s) have Access to Pathways which Lead to this	County, Jackson Independent, Johnson County, Knott
Occupation	County, Knox County, Lawrence County, Lee County,
63% of Districts in Region	Letcher County, Lewis County, Mason County,
30 School(s) Offer Pathways which Lead to this	Middlesboro Independent, Montgomery County, Morgan
Occupation (Note: A school may serve more than one district)	County, Owsley County, Perry County, Pike County,
	Pikeville Independent, Raceland Independent, Rowan
	County, Wolfe County

Transportation and Logistics

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences 17 District(s) have Access to Pathways which Lead to this	Bath County, Bracken County, Carter County, Fleming County, Harlan County, Harlan Independent, Johnson County, Knox County, Lawrence County, Letcher County, Lewis County, Menifee County, Middlesboro Independent, Montgomery County, Morgan County, Perry County, Rowan County
Occupation	, ,
37% of Districts in Region	
16 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Transportation and Logistics

Industrial Truck and Tractor Operators	
Aligned Pathways	Bath County, Bracken County, Carter County, Fleming
Agricultural Power, Structural, Technical Systems, Heavy	County, Harlan County, Harlan Independent, Johnson
Equipment Sciences	County, Knox County, Lawrence County, Lewis County,
16 District(s) have Access to Pathways which Lead to this	Menifee County, Middlesboro Independent, Montgomery
Occupation	County, Morgan County, Perry County, Rowan County
34.8% of Districts in Region	
15 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Transportation and Logistics

Stock, Shipping, and Receiving Clerks	
Aligned Pathways	Ashland Independent, Boyd County, Bracken County,
Agribusiness Systems, Business Management,	Carter County, Clay County, Fleming County, Floyd
Retail/Wholesaling	County, Greenup County, Harlan County, Jackson
27 District(s) have Access to Pathways which Lead to this	Independent, Johnson County, Knott County, Knox
Occupation	County, Lawrence County, Lee County, Letcher County,
58.7% of Districts in Region	Lewis County, Mason County, Montgomery County,
29 School(s) Offer Pathways which Lead to this	Morgan County, Owsley County, Perry County, Pike
Occupation (Note: A school may serve more than one district)	County, Pikeville Independent, Raceland Independent,
·	Rowan County, Wolfe County

Top Occupation Needs in High-Demand Sectors Not Met by District Offerings

- Bus Drivers
- Captains, Mates, and Pilots of Water Vessels
- Emergency Medical Technicians and Paramedics
- Laborers, Packers, Movers
- Lawyers
- Light Truck or Delivery Services Drivers
- Petroleum Pump System Operators, Refinery Operators, and Gaugers
- Postal Service Mail Carriers
- Sailors & Marine Oilers

KENTUCKY'S <u>EAST REGION</u> HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

East Region (5 KCTCS Institutions)

Advanced Manufacturing

Machine Tool Operator	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,
Computerized Manufacturing and Machining	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
60% of Schools in KCTCS	SOUTHEAST KY CTC
3 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Machinist	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,
Computerized Manufacturing and Machining	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
60% of Schools in KCTCS	SOUTHEAST KY CTC
3 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Welders	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Welding Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD
100% of Schools in KCTCS	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL
5 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, SOUTHEAST KY CTC

General and Operations Managers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Business Administration Systems	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD
100% of Schools in KCTCS	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL
5 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, SOUTHEAST KY CTC

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Business Studies - Administrative Office Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
80% of Schools in KCTCS	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
4 School(s) Offer Pathways which Lead to this Occupation	SOUTHEAST KY CTC

Carpenters	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Construction Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
80% of Schools in KCTCS	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
4 School(s) Offer Pathways which Lead to this Occupation	SOUTHEAST KY CTC

Construction

Electrical Power-Line Installers and Repairers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,
Applied Process Technologies, Energy Technologies	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE
40% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Construction

Electricians	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
MIT: Electrical Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD
100% of Schools in KCTCS	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL
5 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, SOUTHEAST KY CTC

Construction

Heating, Air Conditioning, and Refrigeration Mechanics and Installers		
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG	
Advanced Integrated Technology, Air Conditioning	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD	
Technology	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL	
100% of Schools in KCTCS	COLLEGE, SOUTHEAST KY CTC	
5 School(s) Offer Pathways which Lead to this Occupation		

Construction

Operating Engineers and Other Construction Equipment Operators		
Aligned Pathways	HAZARD CTC-MAIN, SOUTHEAST KY CTC	
Healthcare Facilities Leadership		
40% of Schools in KCTCS		
2 School(s) Offer Pathways which Lead to this Occupation		

Construction

Painters, Construction and Maintenance	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Construction Technology	SANDY COMMUNITY AND TECHNICAL COLLEGE,
80% of Schools in KCTCS	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
4 School(s) Offer Pathways which Lead to this Occupation	SOUTHEAST KY CTC

Childcare Workers	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Interdisciplinary Early Childhood Education	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD
100% of Schools in KCTCS	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL
5 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, SOUTHEAST KY CTC

Healthcare

Emergency Medical Technicians and Paramedics		
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE,	
Emergency Medical Services - Paramedic, Fire/Rescue	HAZARD CTC-MAIN, MAYSVILLE COMMUNITY AND	
Science Technology	TECHNICAL COLLEGE, SOUTHEAST KY CTC	
80% of Schools in KCTCS		
4 School(s) Offer Pathways which Lead to this Occupation		

Healthcare

Licensed Practical and Licensed Vocational Nurses		
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG	
Nursing – Academic/Career Mobility Program	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD	
80% of Schools in KCTCS	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL	
4 School(s) Offer Pathways which Lead to this Occupation	COLLEGE	

Healthcare

Medical Assistants	
Aligned Pathways	MAYSVILLE COMMUNITY AND TECHNICAL COLLEGE,
Medical Assisting	SOUTHEAST KY CTC
40% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

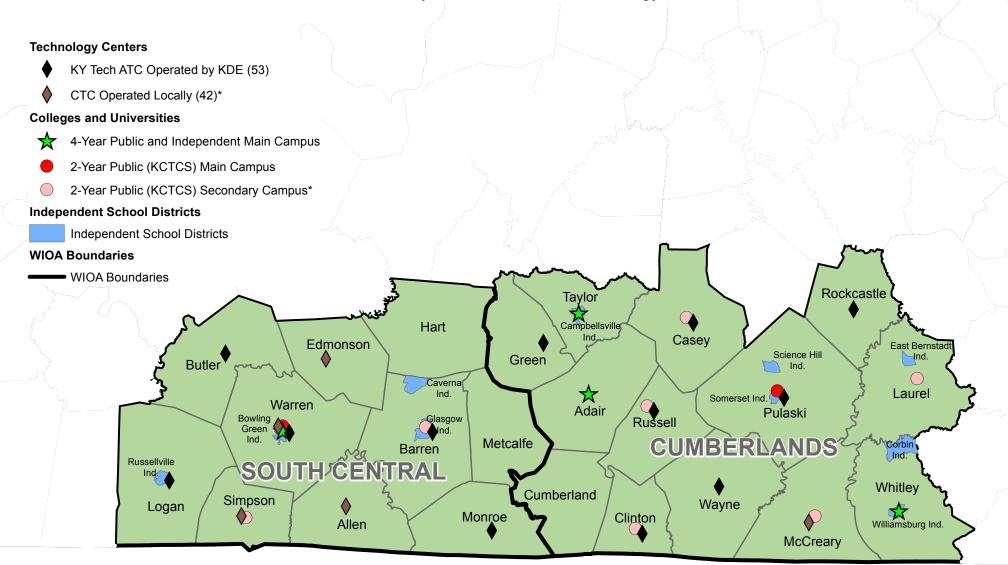
Nursing Assistants	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Nursing - Integrated Nursing, Nursing Assistant –	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD
Advanced	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL
100% of Schools in KCTCS	COLLEGE, SOUTHEAST KY CTC
5 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Registered Nurses	
Aligned Pathways	ASHLAND COMMUNITY AND TECHNICAL COLLEGE, BIG
Nursing	SANDY COMMUNITY AND TECHNICAL COLLEGE, HAZARD
100% of Schools in KCTCS	CTC-MAIN, MAYSVILLE COMMUNITY AND TECHNICAL
5 School(s) Offer Pathways which Lead to this Occupation	COLLEGE, SOUTHEAST KY CTC

South Region

with Postsecondary Institutions and Technology Centers



	South Region High-Demand Industry Sectors and Top Occupations					
	Business & IT Services	Construction	Healthcare	Advanced Manufacturing	Transportation & Logistics	
	This sector comprises professional and financial services, information technology, wholesale trade, and scientific and technical occupations.	This sector comprises occupations primarily engaged in the constuction and maintenance of buildings.	This sector comprises both health care services and social assistance.	This sector comprises occupations in the mechanical, physical or chemicial transformation of materials, substances or components into new products.	This sector comprises occupations in industries providing movement of passengers or cargo, warehousing and storage, and those that plan, direct or coordinate the distribution activities of products.	
	Accountants and Auditors	Construction Laborers	Registered Nurses	Manufacturing Operator/Technician	Laborers, Packers, Movers	
	Managers, All Other	Carpenters	Personal Care Aides	Machine Maintenance Specialist	Heavy and Tractor-Trailer Truck Drivers	
	Lawyers	Electricians	Nursing Assistants	Machinist	Industrial Truck and Tractor Operators	, S
	Management Analysts	Painters, Construction and Maintenance	Childcare Workers	Engineers - Process/Manufacturing	Stock, Shipping, and Receiving Clerks	, k
	Software Developers, Applications	Construction Managers	Licensed Practical and Licensed Vocational Nurses	Machine Tool Operator	Light Truck or Delivery Services Drivers	g
Т	Computer Systems Analysts	Supervisors of Construction and Extraction Workers	Medical Assistants	Inspectors, Testers, Sorters, Samplers, and Weighers	Postal Service Mail Carriers	h I
o p	Paralegals and Legal Assistants	Operating Engineers and Other Construction Equipment Operators	Healthcare Managers	First-Line Supervisors of Production and Operating Workers	First-Line Supervisors	
	General and Operations Managers	Plumbers, Pipefitters, and Steamfitters	Social Workers	Welders	General and Operations Managers	
0	Software Developers, Systems Software	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Medical Secretaries	Manufacturing Managers	Dispatchers, Except Police, Fire, and Ambulance	
C C	General Office Clerks	Cement Masons and Concrete Finishers	Emergency Medical Technicians and Paramedics	Engineers - Design	Cargo and Freight Agents	M i S
u	Computer User Support Specialists	General and Operations Managers	Physicians and Surgeons, All Other	Food Batchmakers	Bus and Truck Mechanics and Diesel Engine Specialists	d k
p a	Customer Service Representatives	Heavy and Tractor-Trailer Truck Drivers	Physical Therapists	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	Machine Feeders and Offbearers	d I I e
t	Photographers	Cost Estimators	Dental Assistants	Production, Planning, and Expediting Clerks	Maintenance and Repair Workers, General	
i	Sales Representatives	Roofers	Social and Human Service Assistants	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	Bus Drivers	
o n	Veterinary Technologists and Technicians	Brickmasons and Blockmasons	First-Line Supervisors of Office and Administrative Support Workers	Metal-Refining Furnace Operators and Tenders	Transportation, Storage, and Distribution Managers	
s	Market Research Analysts and Marketing Specialists	Welders, Cutters, Solderers, and Brazers	Nurse Practitioners	Heavy and Tractor-Trailer Truck Drivers		S
	<u> </u>	Paving, Surfacing, and Tamping Equipment Operators		Purchasing Agents, Except Wholesale, Retail, and Farm Products		o i
	Computer and Information Systems Managers	Electrical Power-Line Installers and Repairers	Medical Records and Health Information Technicians	Slaughterers and Meat Packers		w I
	Civil Engineers	Sheet Metal Workers	Physical Therapist Assistants			
	Veterinarians	Tile and Marble Setters	Family and General Practitioners			
	*To	p 20 Occupations based on the Forecasted Number of	Growth and Replacement job openings over the next Support Sectors	5 years. Occupations not industry specific were remo	oved.	
	Retail Trade	Educational Services	Public Administration	Government	Accomodation and Food Services	
	Energy	Entrepreneurship				

KENTUCKY'S SOUTH REGION HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

South Region (31 Districts Participating in CTE)

Advanced Manufacturing

Engineers - Design

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automotive Engineering/Automotive Maintenance and
Light Repair, Computer Numerical Control (CNC)
Programmer, Electrical Engineering, Engineering &
Technology Design, Fluid Power Mechanic, Industrial
Maintenance Electrical Technician, Machinist Operator,
Machinist Technician, Maintenance Machinist,
Maintenance Mechanic, Manufacturing Engineering
Technology Technician, Mechanical Designer, Project
Lead the Way (PLTW) - Engineering, Robotics &
Automation

30 District(s) have Access to Pathways which Lead to this Occupation

96.8% of Districts in Region

35 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Butler
County, Campbellsville Independen, Casey County,
Caverna Independent, Clinton County, Corbin
Independent, Cumberland County, Edmonson County,
Glasgow Independent, Green County, Hart County, Laurel
County, Logan County, McCreary County, Metcalfe
County, Monroe County, Pulaski County, Rockcastle
County, Russell County, Russellville Independent,
Simpson County, Somerset Independent, Taylor County,
Warren County, Wayne County, Whitley County,
Williamsburg Independent

Advanced Manufacturing

Engineers - Process/Manufacturing

Aligned Pathways

Electrical Engineering, Engineering & Technology Design, Manufacturing Engineering Technology Technician, Project Lead the Way (PLTW) - Engineering, Robotics & Automation

15 District(s) have Access to Pathways which Lead to this Occupation

48.4% of Districts in Region

16 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Barren County, Casey County, Corbin Independent, Cumberland County, Glasgow Independent, Laurel County, Logan County, McCreary County, Pulaski County, Rockcastle County, Russell County, Taylor County, Wayne County, Whitley County, Williamsburg Independent

Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic Adair County, Allen County, Barren County, **Aligned Pathways** Computer Numerical Control (CNC) Operator, Computer Campbellsville Independen, Casey County, Caverna Independent, Glasgow Independent, Green County, Hart Numerical Control (CNC) Programmer, Machinist County, Logan County, Russell County, Russellville Operator, Machinist Technician, Maintenance Mechanic, Independent, Taylor County, Wayne County Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer 14 District(s) have Access to Pathways which Lead to this Occupation 45.2% of Districts in Region 8 School(s) Offer Pathways which Lead to this Occupation

Advanced Manufacturing

(Note: A school may serve more than one district)

First-Line Supervisors of Production and Operating Workers	
Aligned Pathways	Adair County, Allen County, Barren County, Butler
Agribusiness Systems, Agricultural Power, Structural,	County, Campbellsville Independen, Casey County,
Technical Systems, Business Management, Computer	Caverna Independent, Clinton County, Corbin
Numerical Control (CNC) Operator, Computer Numerical	Independent, Cumberland County, Edmonson County,
Control (CNC) Programmer, Machinist Operator,	Glasgow Independent, Green County, Hart County, Laurel
Machinist Technician, Management Entrepreneurship,	County, Logan County, Metcalfe County, Monroe County,
Manufacturing Engineering Technology Technician,	Pulaski County, Rockcastle County, Russell County,
Manufacturing TRACK	Russellville Independent, Simpson County, Somerset
28 District(s) have Access to Pathways which Lead to this	Independent, Taylor County, Warren County, Wayne
Occupation	County, Whitley County
90.3% of Districts in Region	
33 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Advanced Manufacturing

Food Batchmakers		
Aligned Pathways	Adair County, Barren County	
Agribiotechnology Systems, Food Science and Processing		
Systems		
2 District(s) have Access to Pathways which Lead to this]	
Occupation		
6.5% of Districts in Region]	
2 School(s) Offer Pathways which Lead to this Occupation	7	
(Note: A school may serve more than one district)		

Heavy and Tractor-Trailer Truck Drivers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences

15 District(s) have Access to Pathways which Lead to this Occupation

48.4% of Districts in Region

18 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Allen County, Barren County, Butler County, Casey County, Clinton County, Edmonson County, Laurel County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Simpson County, Taylor County, Warren County, Whitley County

Advanced Manufacturing

Inspectors, Testers, Sorters, Samplers, and Weighers

Aligned Pathways

Automated Wood Processer, Cabinetmaker, Combination Arc Welder, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Fluid Power Mechanic, Furniture Maker, Gas Metal Arc Welder, Industrial Maintenance Electrical Technician, Industrial Maintenance Welding Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Refrigeration Technician, Retail/Wholesaling, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level

30 District(s) have Access to Pathways which Lead to this Occupation

96.8% of Districts in Region

25 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Machine Maintenance Specialist

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Combination Arc Welder, Computer Numerical Control
(CNC) Operator, Computer Numerical Control (CNC)
Programmer, Fluid Power Mechanic, Gas Metal Arc
Welder, Industrial Maintenance Electrical Technician,
Machinist Operator, Machinist Technician, Maintenance
Machinist, Maintenance Mechanic, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician,
Shielded Metal Arc Welder, Welder - Entry Level, Welding
Pipefitters TRACK

30 District(s) have Access to Pathways which Lead to this Occupation

96.8% of Districts in Region

35 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Advanced Manufacturing

Machine Tool Operator

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer

25 District(s) have Access to Pathways which Lead to this Occupation

80.6% of Districts in Region

24 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Taylor County, Warren County, Wayne County, Whitley County

Machinist

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer, Sheet Metal Technician

25 District(s) have Access to Pathways which Lead to this Occupation

80.6% of Districts in Region

24 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Taylor County, Warren County, Wayne County, Whitley County

Advanced Manufacturing

Manufacturing Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Hospitality Services, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

31 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

42 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Manufacturing Operator/Technician

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automated Wood Processer, Cabinetmaker, Computer
Numerical Control (CNC) Operator, Computer Numerical
Control (CNC) Programmer, Fluid Power Mechanic,
Furniture Maker, Industrial Maintenance Electrical
Technician, Machinist Operator, Machinist Technician,
Maintenance Machinist, Maintenance Mechanic,
Manufacturing Engineering Technology Technician,
Manufacturing TRACK, Sheet Metal Technician, Welder Entry Level

30 District(s) have Access to Pathways which Lead to this Occupation

96.8% of Districts in Region

35 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Advanced Manufacturing

Production, Planning, and Expediting Clerks

Aligned Pathways

Administrative Support, Business Management, Global Logistics, Management Entrepreneurship, Marketing, Retail/Wholesaling

29 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

34 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling
Green Independent, Butler County, Campbellsville
Independen, Casey County, Caverna Independent, Clinton
County, Corbin Independent, Cumberland County,
Edmonson County, Glasgow Independent, Green County,
Hart County, Laurel County, Logan County, McCreary
County, Metcalfe County, Monroe County, Pulaski
County, Russell County, Russellville Independent,
Simpson County, Somerset Independent, Taylor County,
Warren County, Wayne County, Whitley County

Advanced Manufacturing

Purchasing Agents, Except Wholesale, Retail, and Farm Products	
Aligned Pathways	Allen County, Pulaski County, Taylor County, Wayne
Retail/Wholesaling	County
4 District(s) have Access to Pathways which Lead to this	
Occupation	
12.9% of Districts in Region	
5 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific **Products Aligned Pathways** Adair County, Allen County, Barren County, Bowling Green Independent, Campbellsville Independen, Casey Agribusiness Systems, Marketing, Retail/Wholesaling County, Edmonson County, Glasgow Independent, Green 21 District(s) have Access to Pathways which Lead to this County, Laurel County, Logan County, McCreary County, Occupation Metcalfe County, Pulaski County, Russell County, Simpson 67.7% of Districts in Region County, Somerset Independent, Taylor County, Warren 23 School(s) Offer Pathways which Lead to this County, Wayne County, Whitley County Occupation (Note: A school may serve more than one district)

Advanced Manufacturing

Slaughterers and Meat Packers	
Aligned Pathways	Adair County, Allen County, Barren County, Butler
Agribiotechnology Systems, Animal Science Systems,	County, Casey County, Clinton County, Corbin
Culinary & Food Services, Food Science and Processing	Independent, Cumberland County, Edmonson County,
Systems	Glasgow Independent, Green County, Hart County, Laurel
26 District(s) have Access to Pathways which Lead to this	County, Logan County, Metcalfe County, Monroe County,
Occupation	Pulaski County, Rockcastle County, Russell County,
83.9% of Districts in Region	Russellville Independent, Simpson County, Somerset
31 School(s) Offer Pathways which Lead to this	Independent, Taylor County, Warren County, Wayne
Occupation (Note: A school may serve more than one district)	County, Whitley County

Advanced Manufacturing

Welders	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Agricultural Power, Structural, Technical Systems,	Green Independent, Butler County, Campbellsville
Combination Arc Welder, Gas Metal Arc Welder,	Independen, Casey County, Caverna Independent, Clinton
Manufacturing TRACK, Sheet Metal Technician, Shielded	County, Corbin Independent, Cumberland County,
Metal Arc Welder, Welder - Entry Level, Welding	Edmonson County, Glasgow Independent, Green County,
Engineering, Welding Pipefitters TRACK	Hart County, Laurel County, Logan County, Metcalfe
30 District(s) have Access to Pathways which Lead to this	County, Monroe County, Pulaski County, Rockcastle
Occupation	County, Russell County, Russellville Independent,
96.8% of Districts in Region	Simpson County, Somerset Independent, Taylor County,
34 School(s) Offer Pathways which Lead to this	Warren County, Wayne County, Whitley County,
Occupation (Note: A school may serve more than one district)	Williamsburg Independent

Accountants and Auditors	
Aligned Pathways	Adair County, Barren County, Bowling Green
Accounting, Finance	Independent, Butler County, Casey County, Corbin
18 District(s) have Access to Pathways which Lead to this	Independent, Glasgow Independent, Hart County, Laurel
Occupation	County, Logan County, McCreary County, Pulaski County,
58.1% of Districts in Region	Russellville Independent, Somerset Independent, Taylor
19 School(s) Offer Pathways which Lead to this	County, Warren County, Wayne County, Williamsburg
Occupation (Note: A school may serve more than one district)	Independent

Business and IT Services

Civil Engineers	
Aligned Pathways Agricultural Power, Structural, Technical Systems, Civil Architecture & Construction Technology, Civil Designer, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Project Lead the Way (PLTW) - Engineering 20 District(s) have Access to Pathways which Lead to this Occupation	Adair County, Allen County, Barren County, Butler County, Casey County, Clinton County, Corbin Independent, Edmonson County, Glasgow Independent, Laurel County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Simpson County, Taylor County, Warren County, Whitley County, Williamsburg Independent
64.5% of Districts in Region	
25 School(s) Offer Pathways which Lead to this]
Occupation (Note: A school may serve more than one district)	

Business and IT Services

Computer and Information Systems Managers	
Aligned Pathways Informatics, Information Support and Services, Network Security	Barren County, Campbellsville Independen, Caverna Independent, Glasgow Independent, Hart County, Logan County, Metcalfe County, Rockcastle County, Russellville
9 District(s) have Access to Pathways which Lead to this Occupation	Independent
29% of Districts in Region	
6 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Computer Systems Analysts	
Aligned Pathways	Barren County, Campbellsville Independen, Caverna
Informatics, Information Support and Services	Independent, Glasgow Independent, Hart County, Logan
9 District(s) have Access to Pathways which Lead to this	County, Metcalfe County, Rockcastle County, Russellville
Occupation	Independent
29% of Districts in Region	
6 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Computer User Support Specialists	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Business Multimedia, Information Processing,	Green Independent, Campbellsville Independen, Casey
Information Support and Services	County, Caverna Independent, Edmonson County,
22 District(s) have Access to Pathways which Lead to this	Glasgow Independent, Green County, Hart County, Laurel
Occupation	County, Logan County, Metcalfe County, Pulaski County,
71% of Districts in Region	Rockcastle County, Russellville Independent, Simpson
23 School(s) Offer Pathways which Lead to this	County, Taylor County, Warren County, Wayne County,
Occupation (Note: A school may serve more than one district)	Whitley County

Business and IT Services

Customer Service Representative	!S
Aligned Pathways	

Administrative Support, Agribusiness Systems, Financial Services (Marketing), Hospitality Services, Information Processing, Information Support and Services, Marketing, Retail/Wholesaling

30 District(s) have Access to Pathways which Lead to this Occupation

96.8% of Districts in Region

39 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

31 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

42 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Business and IT Services

Aligned Pathways Administrative Support, Agribusiness Systems, Information Processing 24 District(s) have Access to Pathways which Lead to this Occupation 77.4% of Districts in Region 30 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Butler
County, Casey County, Clinton County, Corbin
Independent, Cumberland County, Edmonson County,
Green County, Hart County, Laurel County, Logan County,
Metcalfe County, Monroe County, Pulaski County,
Rockcastle County, Russell County, Russellville
Independent, Simpson County, Taylor County, Warren
County, Wayne County, Whitley County

Business and IT Services

Management Analysts

Aligned Pathways

Accounting, Agribusiness Systems, Business Management, Management Entrepreneurship

25 District(s) have Access to Pathways which Lead to this Occupation

80.6% of Districts in Region

29 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling
Green Independent, Butler County, Casey County,
Caverna Independent, Clinton County, Corbin
Independent, Cumberland County, Glasgow Independent,
Green County, Hart County, Laurel County, Logan County,
McCreary County, Metcalfe County, Monroe County,
Pulaski County, Russell County, Russellville Independent,
Somerset Independent, Taylor County, Warren County,
Wayne County

Managers, All Other	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Accounting, Agribusiness Systems, Business	Green Independent, Butler County, Casey County,
Management, Finance, Hospitality Services, Management	Caverna Independent, Clinton County, Corbin
Entrepreneurship, Retail/Wholesaling	Independent, Cumberland County, Glasgow Independent,
26 District(s) have Access to Pathways which Lead to this	Green County, Hart County, Laurel County, Logan County,
Occupation	McCreary County, Metcalfe County, Monroe County,
83.9% of Districts in Region	Pulaski County, Russell County, Russellville Independent,
33 School(s) Offer Pathways which Lead to this	Somerset Independent, Taylor County, Warren County,
Occupation (Note: A school may serve more than one district)	Wayne County, Williamsburg Independent

Business and IT Services

Market Research Analysts and Marketing Specialists	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Advertising, Agribusiness Systems, Business	Green Independent, Campbellsville Independen, Casey
Management, E-Commerce, Marketing	County, Caverna Independent, Clinton County, Corbin
27 District(s) have Access to Pathways which Lead to this	Independent, Cumberland County, Edmonson County,
Occupation	Glasgow Independent, Green County, Hart County, Laurel
87.1% of Districts in Region	County, Logan County, McCreary County, Metcalfe
32 School(s) Offer Pathways which Lead to this	County, Monroe County, Pulaski County, Russell County,
Occupation (Note: A school may serve more than one district)	Simpson County, Somerset Independent, Taylor County,
	Warren County, Wayne County, Whitley County

Business and IT Services

Photographers	
Aligned Pathways	Adair County, Corbin Independent
Cinematography and Video Production	
2 District(s) have Access to Pathways which Lead to this	
Occupation	
6.5% of Districts in Region	
2 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Sales Representatives	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Agribusiness Systems, Marketing, Retail/Wholesaling	Green Independent, Campbellsville Independen, Casey
21 District(s) have Access to Pathways which Lead to this	County, Edmonson County, Glasgow Independent, Green
Occupation	County, Laurel County, Logan County, McCreary County,
67.7% of Districts in Region	Metcalfe County, Pulaski County, Russell County, Simpson
23 School(s) Offer Pathways which Lead to this	County, Somerset Independent, Taylor County, Warren
Occupation (Note: A school may serve more than one district)	County, Wayne County, Whitley County

Software Developers, Applications	
Aligned Pathways	Adair County, Bowling Green Independent, Butler County,
Computer Programming, Computer Science, Digital	Edmonson County, Laurel County, Metcalfe County,
Design and Game Development, Web	Pulaski County, Rockcastle County, Russell County,
Development/Administration	Simpson County, Warren County, Whitley County
12 District(s) have Access to Pathways which Lead to this	
Occupation	
38.7% of Districts in Region	
10 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Business and IT Services

Software Developers, Systems Software	
Aligned Pathways Computer Programming, Computer Science, Digital Design and Game Development, Network Security, Web	Adair County, Bowling Green Independent, Butler County, Edmonson County, Laurel County, Metcalfe County, Pulaski County, Rockcastle County, Russell County,
Development/Administration 12 District(s) have Access to Pathways which Lead to this	Simpson County, Warren County, Whitley County
Occupation	
38.7% of Districts in Region	 -
10 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Business and IT Services

Tax Preparers	
Aligned Pathways	Adair County, Barren County, Bowling Green
Accounting, Finance	Independent, Butler County, Casey County, Corbin
18 District(s) have Access to Pathways which Lead to this	Independent, Glasgow Independent, Hart County, Laurel
Occupation	County, Logan County, McCreary County, Pulaski County,
58.1% of Districts in Region	Russellville Independent, Somerset Independent, Taylor
19 School(s) Offer Pathways which Lead to this	County, Warren County, Wayne County, Williamsburg
Occupation (Note: A school may serve more than one district)	Independent

Veterinarians	
Aligned Pathways	Adair County, Allen County, Barren County, Butler
Agribiotechnology Systems, Animal Science Systems,	County, Casey County, Clinton County, Cumberland
Veterinary Assistant	County, Edmonson County, Green County, Hart County,
21 District(s) have Access to Pathways which Lead to this	Laurel County, Logan County, Metcalfe County, Monroe
Occupation	County, Pulaski County, Rockcastle County, Russell
67.7% of Districts in Region	County, Simpson County, Taylor County, Warren County,
26 School(s) Offer Pathways which Lead to this	Wayne County
Occupation (Note: A school may serve more than one district)	

Veterinary Technologists and Technicians	
Aligned Pathways	Adair County, Allen County, Barren County, Butler
Agribiotechnology Systems, Animal Science Systems,	County, Casey County, Clinton County, Cumberland
Veterinary Assistant	County, Edmonson County, Green County, Hart County,
21 District(s) have Access to Pathways which Lead to this	Laurel County, Logan County, Metcalfe County, Monroe
Occupation	County, Pulaski County, Rockcastle County, Russell
67.7% of Districts in Region	County, Simpson County, Taylor County, Warren County,
26 School(s) Offer Pathways which Lead to this	Wayne County
Occupation (Note: A school may serve more than one district)	

Brickmasons and Blockmasons	
Aligned Pathways	Simpson County
Bricklayer Assistant, Mason Apprentice	
1 District(s) have Access to Pathways which Lead to this	
Occupation	
3.2% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Construction

Carpenters	
Aligned Pathways	Adair County, Barren County, Bowling Green
Carpenter Assistant, Carpentry-TRACK, Construction	Independent, Butler County, Caverna Independent,
Forms Assistant, Residential Carpenter Assistant,	Clinton County, Cumberland County, Edmonson County,
Residential Maintenance Carpenter Assistant	Glasgow Independent, Hart County, Laurel County,
19 District(s) have Access to Pathways which Lead to this	McCreary County, Metcalfe County, Monroe County,
Occupation	Pulaski County, Russell County, Somerset Independent,
61.3% of Districts in Region	Warren County, Wayne County
11 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Construction

Cement Masons and Concrete Finishers	
Aligned Pathways	Adair County, Russell County, Simpson County
Bricklayer Assistant, Construction Forms Assistant, Mason	
Apprentice	
3 District(s) have Access to Pathways which Lead to this	
Occupation	
9.7% of Districts in Region	
2 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

Construction Laborers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

29 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

33 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Construction

Construction Managers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

29 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

33 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling
Green Independent, Butler County, Casey County,
Caverna Independent, Clinton County, Corbin
Independent, Cumberland County, Edmonson County,
Glasgow Independent, Hart County, Laurel County, Logan
County, McCreary County, Metcalfe County, Monroe
County, Pulaski County, Rockcastle County, Russell
County, Russellville Independent, Simpson County,
Somerset Independent, Taylor County, Warren County,
Wayne County, Whitley County, Williamsburg
Independent

Cost Estimators

Aligned Pathways

Architectural Designer, Automated Wood Processer, Bricklayer Assistant, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Civil Designer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Furniture Maker, Industrial Electrician Assistant, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

31 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

18 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Construction

Electrical Power-Line Installers and Repairers

Aligned Pathways

Electrical Engineering, Electrician Assistant

17 District(s) have Access to Pathways which Lead to this Occupation

54.8% of Districts in Region

8 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Barren County, Casey County, Caverna Independent, Corbin Independent, Glasgow Independent, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Whitley County, Williamsburg Independent

Construction

Electricians

Aligned Pathways

Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Industrial Electrician Assistant, Residential Electrician

17 District(s) have Access to Pathways which Lead to this Occupation

54.8% of Districts in Region

8 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Barren County, Casey County, Caverna Independent, Corbin Independent, Glasgow Independent, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Whitley County, Williamsburg Independent

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

31 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

42 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Construction

Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Aligned Pathways

Electrical Engineering, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Industrial Maintenance Electrical Technician, Maintenance Mechanic, Refrigeration Mechanic, Refrigeration Technician

18 District(s) have Access to Pathways which Lead to this Occupation

58.1% of Districts in Region

9 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Butler County, Campbellsville Independen, Caverna Independent, Clinton County, Cumberland County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Pulaski County, Russell County, Russellville Independent, Somerset Independent, Taylor County

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways	Allen County, Barren County, Butler County, Casey
Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel	County, Clinton County, Edmonson County, Laurel County, Metcalfe County, Monroe County, Pulaski
Engine/ElectricianTechnician/Basic Automotive Electricity	County, Rockcastle County, Simpson County, Taylor
Option, Heavy Equipment Sciences	County, Warren County, Whitley County
15 District(s) have Access to Pathways which Lead to this Occupation	
48.4% of Districts in Region	
18 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Construction

Operating Engineers and Other Construction Equipment Operators	
Aligned Pathways	Allen County, Barren County, Butler County, Casey
Agricultural Power, Structural, Technical Systems, Heavy	County, Clinton County, Edmonson County, Laurel
Equipment Sciences	County, Metcalfe County, Monroe County, Pulaski
15 District(s) have Access to Pathways which Lead to this	County, Rockcastle County, Simpson County, Taylor
Occupation	County, Warren County, Whitley County
48.4% of Districts in Region	
18 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Construction

Paving, Surfacing, and Tamping Equipment Operators	
Aligned Pathways	Adair County, Russell County
Construction Forms Assistant, Heavy Equipment Sciences	
2 District(s) have Access to Pathways which Lead to this	
Occupation	
6.5% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Plumbers, Pipefitters, and Steamfitters Adair County, Allen County, Barren County, Bowling **Aligned Pathways** Green Independent, Butler County, Campbellsville Combination Arc Welder, Environmental Control System Independen, Casey County, Caverna Independent, Clinton Servicer Assistant, Gas Metal Arc Welder, Natural Gas County, Corbin Independent, Cumberland County, Pipeline, Plumber Assistant, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Metcalfe Pipefitters TRACK 30 District(s) have Access to Pathways which Lead to this County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Occupation Simpson County, Somerset Independent, Taylor County, 96.8% of Districts in Region Warren County, Wayne County, Whitley County, 19 School(s) Offer Pathways which Lead to this Williamsburg Independent Occupation (Note: A school may serve more than one district)

Construction

Roofers	
Aligned Pathways Agricultural Power, Structural, Technical Systems,	Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Casey County,
Carpenter Assistant, Carpentry-TRACK, Construction	Caverna Independent, Clinton County, Cumberland
Forms Assistant, Residential Carpenter Assistant,	County, Edmonson County, Glasgow Independent, Hart
Residential Maintenance Carpenter Assistant	County, Laurel County, McCreary County, Metcalfe
25 District(s) have Access to Pathways which Lead to this	County, Monroe County, Pulaski County, Rockcastle
Occupation	County, Russell County, Simpson County, Somerset
80.6% of Districts in Region	Independent, Taylor County, Warren County, Wayne
29 School(s) Offer Pathways which Lead to this	County, Whitley County
Occupation (Note: A school may serve more than one district)	

Construction

Sheet Metal Workers	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Combination Arc Welder, Gas Metal Arc Welder,	Green Independent, Campbellsville Independen, Casey
Manufacturing TRACK, Sheet Metal Technician, Shielded	County, Caverna Independent, Clinton County, Corbin
Metal Arc Welder, Welder - Entry Level, Welding	Independent, Cumberland County, Edmonson County,
Engineering	Glasgow Independent, Green County, Hart County, Laurel
29 District(s) have Access to Pathways which Lead to this	County, Logan County, Metcalfe County, Monroe County,
Occupation	Pulaski County, Rockcastle County, Russell County,
93.5% of Districts in Region	Russellville Independent, Simpson County, Somerset
18 School(s) Offer Pathways which Lead to this	Independent, Taylor County, Warren County, Wayne
Occupation (Note: A school may serve more than one district)	County, Whitley County, Williamsburg Independent

Supervisors of Construction and Extraction Workers

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Carpenter Assistant, Carpentry-TRACK, Construction
Forms Assistant, Construction-Electrical-TRACK,
Electrician Assistant, Environmental Control System
Servicer Assistant, Industrial Electrician Assistant,
Plumber Assistant, Refrigeration Mechanic, Residential
Carpenter Assistant, Residential Electrician, Residential
Maintenance Carpenter Assistant

29 District(s) have Access to Pathways which Lead to this Occupation

93.5% of Districts in Region

33 School(s) Offer Pathways which Lead to this

Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling
Green Independent, Butler County, Casey County,
Caverna Independent, Clinton County, Corbin
Independent, Cumberland County, Edmonson County,
Glasgow Independent, Hart County, Laurel County, Logan
County, McCreary County, Metcalfe County, Monroe
County, Pulaski County, Rockcastle County, Russell
County, Russellville Independent, Simpson County,
Somerset Independent, Taylor County, Warren County,
Wayne County, Whitley County, Williamsburg
Independent

Construction

Tile and Marble Setters	
Aligned Pathways	Adair County, Clinton County, Cumberland County,
Mason Apprentice, Residential Carpenter Assistant	Pulaski County, Russell County, Somerset Independent,
7 District(s) have Access to Pathways which Lead to this	Wayne County
Occupation	
22.6% of Districts in Region	
4 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Construction

Welders, Cutters, Solderers, and Brazers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

30 District(s) have Access to Pathways which Lead to this Occupation

96.8% of Districts in Region

34 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Childcare Workers	
Aligned Pathways	Allen County, Barren County, Butler County, Casey
Early Childhood Education	County, Caverna Independent, Clinton County, Green
17 District(s) have Access to Pathways which Lead to this	County, Hart County, Laurel County, Logan County,
Occupation	Monroe County, Pulaski County, Rockcastle County,
54.8% of Districts in Region	Simpson County, Taylor County, Warren County, Wayne
22 School(s) Offer Pathways which Lead to this	County
Occupation (Note: A school may serve more than one district)	

<u>Healthcare</u>

Dental Assistants	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Allied Health, Dental Technology	Green Independent, Casey County, Caverna Independent,
21 District(s) have Access to Pathways which Lead to this	Clinton County, Corbin Independent, Cumberland County,
Occupation	Edmonson County, Glasgow Independent, Hart County,
67.7% of Districts in Region	McCreary County, Pulaski County, Rockcastle County,
12 School(s) Offer Pathways which Lead to this	Russell County, Simpson County, Somerset Independent,
Occupation (Note: A school may serve more than one district)	Warren County, Whitley County, Williamsburg
,	Independent

Healthcare

Family and General Practitioners	
Aligned Pathways PLTW Biomedical Sciences	Barren County, Corbin Independent, Glasgow Independent, Laurel County, Pulaski County, Whitley
7 District(s) have Access to Pathways which Lead to this	County, Williamsburg Independent
Occupation 22.6% of Districts in Region	
7 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

<u>Healthcare</u>

First-Line Supervisors of Office and Administrative Support Workers	
Aligned Pathways	Adair County, Allen County, Barren County, Butler
Administrative Support, Agribusiness Systems,	County, Casey County, Clinton County, Corbin
Information Processing, Management Entrepreneurship,	Independent, Cumberland County, Edmonson County,
Medical Administrative Assisting	Green County, Hart County, Laurel County, Logan County,
25 District(s) have Access to Pathways which Lead to this	Metcalfe County, Monroe County, Pulaski County,
Occupation	Rockcastle County, Russell County, Russellville
80.6% of Districts in Region	Independent, Simpson County, Somerset Independent,
31 School(s) Offer Pathways which Lead to this	Taylor County, Warren County, Wayne County, Whitley
Occupation (Note: A school may serve more than one district)	County

Healthcare Managers	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Medical Administrative Assisting, Pre-Nursing	Green Independent, Butler County, Campbellsville
29 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Caverna Independent, Clinton
Occupation	County, Corbin Independent, Cumberland County,
93.5% of Districts in Region	Glasgow Independent, Green County, Hart County, Laurel
20 School(s) Offer Pathways which Lead to this	County, Logan County, McCreary County, Metcalfe
Occupation (Note: A school may serve more than one district)	County, Monroe County, Pulaski County, Rockcastle
·	County, Russell County, Russellville Independent,
	Simpson County, Somerset Independent, Taylor County,
	Wayne County, Whitley County, Williamsburg
	Independent

Healthcare

Licensed Practical and Licensed Vocational Nurses	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Pre-Nursing	Green Independent, Butler County, Campbellsville
29 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Caverna Independent, Clinton
Occupation	County, Corbin Independent, Cumberland County,
93.5% of Districts in Region	Glasgow Independent, Green County, Hart County, Laurel
19 School(s) Offer Pathways which Lead to this	County, Logan County, McCreary County, Metcalfe
Occupation (Note: A school may serve more than one district)	County, Monroe County, Pulaski County, Rockcastle
·	County, Russell County, Russellville Independent,
	Simpson County, Somerset Independent, Taylor County,
	Wayne County, Whitley County, Williamsburg
	Independent

<u>Healthcare</u>

Medical Assistants	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Allied Health, Medical Administrative Assisting, Pre-	Green Independent, Butler County, Campbellsville
Nursing	Independen, Casey County, Caverna Independent, Clinton
31 District(s) have Access to Pathways which Lead to this	County, Corbin Independent, Cumberland County,
Occupation	Edmonson County, Glasgow Independent, Green County,
100% of Districts in Region	Hart County, Laurel County, Logan County, McCreary
21 School(s) Offer Pathways which Lead to this	County, Metcalfe County, Monroe County, Pulaski
Occupation (Note: A school may serve more than one district)	County, Rockcastle County, Russell County, Russellville
	Independent, Simpson County, Somerset Independent,
	Taylor County, Warren County, Wayne County, Whitley
	County, Williamsburg Independent

Medical Records and Health Information Technicians	
Aligned Pathways	Adair County, Allen County, Barren County, Butler
Administrative Support, Informatics, Medical	County, Casey County, Clinton County, Corbin
Administrative Assisting, Medical Business Office	Independent, Cumberland County, Hart County, Laurel
20 District(s) have Access to Pathways which Lead to this	County, Logan County, Metcalfe County, Monroe County,
Occupation	Pulaski County, Russellville Independent, Simpson
64.5% of Districts in Region	County, Somerset Independent, Warren County, Wayne
21 School(s) Offer Pathways which Lead to this	County, Whitley County
Occupation (Note: A school may serve more than one district)	

Healthcare

Medical Secretaries	
Aligned Pathways	Adair County, Allen County, Barren County, Butler
Administrative Support, Information Processing, Medical	County, Casey County, Clinton County, Corbin
Administrative Assisting, Medical Business Office	Independent, Cumberland County, Edmonson County,
22 District(s) have Access to Pathways which Lead to this	Hart County, Laurel County, Logan County, Metcalfe
Occupation	County, Monroe County, Pulaski County, Rockcastle
71% of Districts in Region	County, Russellville Independent, Simpson County,
27 School(s) Offer Pathways which Lead to this	Somerset Independent, Warren County, Wayne County,
Occupation (Note: A school may serve more than one district)	Whitley County

Healthcare

Mental Health Counselors	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Consumer & Family Management	Green Independent, Butler County, Campbellsville
19 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Clinton County, Cumberland
Occupation	County, Green County, Hart County, Laurel County,
61.3% of Districts in Region	Pulaski County, Rockcastle County, Simpson County,
24 School(s) Offer Pathways which Lead to this	Somerset Independent, Warren County, Wayne County,
Occupation (Note: A school may serve more than one district)	Williamsburg Independent

Healthcare

Nurse Practitioners	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Pre-Nursing	Green Independent, Butler County, Campbellsville
29 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Caverna Independent, Clinton
Occupation	County, Corbin Independent, Cumberland County,
93.5% of Districts in Region	Glasgow Independent, Green County, Hart County, Laurel
19 School(s) Offer Pathways which Lead to this	County, Logan County, McCreary County, Metcalfe
Occupation (Note: A school may serve more than one district)	County, Monroe County, Pulaski County, Rockcastle
,	County, Russell County, Russellville Independent,
	Simpson County, Somerset Independent, Taylor County,
	Wayne County, Whitley County, Williamsburg
	Independent

Nursing Assistants	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Pre-Nursing	Green Independent, Butler County, Campbellsville
29 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Caverna Independent, Clinton
Occupation	County, Corbin Independent, Cumberland County,
93.5% of Districts in Region	Glasgow Independent, Green County, Hart County, Laurel
19 School(s) Offer Pathways which Lead to this	County, Logan County, McCreary County, Metcalfe
Occupation (Note: A school may serve more than one district)	County, Monroe County, Pulaski County, Rockcastle
	County, Russell County, Russellville Independent,
	Simpson County, Somerset Independent, Taylor County,
	Wayne County, Whitley County, Williamsburg
	Independent

<u>Healthcare</u>

Personal Care Aides	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Allied Health, Pre-Nursing	Green Independent, Butler County, Campbellsville
31 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Caverna Independent, Clinton
Occupation	County, Corbin Independent, Cumberland County,
100% of Districts in Region	Edmonson County, Glasgow Independent, Green County,
20 School(s) Offer Pathways which Lead to this	Hart County, Laurel County, Logan County, McCreary
Occupation (Note: A school may serve more than one district)	County, Metcalfe County, Monroe County, Pulaski
	County, Rockcastle County, Russell County, Russellville
	Independent, Simpson County, Somerset Independent,
	Taylor County, Warren County, Wayne County, Whitley
	County, Williamsburg Independent

<u>Healthcare</u>

Physicians and Surgeons, All Other	
Aligned Pathways	Barren County, Corbin Independent, Glasgow
PLTW Biomedical Sciences	Independent, Laurel County, Pulaski County, Whitley
7 District(s) have Access to Pathways which Lead to this	County, Williamsburg Independent
Occupation	
22.6% of Districts in Region	
7 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Registered Nurses	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Pre-Nursing	Green Independent, Butler County, Campbellsville
29 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Caverna Independent, Clinton
Occupation	County, Corbin Independent, Cumberland County,
93.5% of Districts in Region	Glasgow Independent, Green County, Hart County, Laurel
19 School(s) Offer Pathways which Lead to this	County, Logan County, McCreary County, Metcalfe
Occupation (Note: A school may serve more than one district)	County, Monroe County, Pulaski County, Rockcastle
•	County, Russell County, Russellville Independent,
	Simpson County, Somerset Independent, Taylor County,
	Wayne County, Whitley County, Williamsburg
	Independent

<u>Healthcare</u>

Social and Human Service Assistants	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Consumer & Family Management	Green Independent, Butler County, Campbellsville
19 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Clinton County, Cumberland
Occupation	County, Green County, Hart County, Laurel County,
61.3% of Districts in Region	Pulaski County, Rockcastle County, Simpson County,
24 School(s) Offer Pathways which Lead to this	Somerset Independent, Warren County, Wayne County,
Occupation (Note: A school may serve more than one district)	Williamsburg Independent

<u>Healthcare</u>

Social Workers	
Aligned Pathways	Adair County, Allen County, Barren County, Bowling
Consumer & Family Management	Green Independent, Butler County, Campbellsville
19 District(s) have Access to Pathways which Lead to this	Independen, Casey County, Clinton County, Cumberland
Occupation	County, Green County, Hart County, Laurel County,
61.3% of Districts in Region	Pulaski County, Rockcastle County, Simpson County,
24 School(s) Offer Pathways which Lead to this	Somerset Independent, Warren County, Wayne County,
Occupation (Note: A school may serve more than one district)	Williamsburg Independent

Bus and Truck Mechanics and Diesel Engine Specialists Allen County, Barren County, Butler County, Casey **Aligned Pathways** County, Clinton County, Edmonson County, Laurel Agricultural Power, Structural, Technical Systems, County, Metcalfe County, Monroe County, Pulaski Automotive Engineering/Automotive Maintenance and County, Rockcastle County, Simpson County, Taylor Light Repair, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic County, Warren County, Whitley County **Automotive Electricity Option** 15 District(s) have Access to Pathways which Lead to this Occupation 48.4% of Districts in Region 18 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Transportation and Logistics

Dispatchers, Except Police, Fire, and Ambulance

Aligned Pathways

Automobile Service Technician, Automotive Engineering/Automotive Maintenance and Light Repair, Automotive Maintenance and Light Repair Technician, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Entry Level Non-Structural Damage and Repair Technician

30 District(s) have Access to Pathways which Lead to this Occupation

96.8% of Districts in Region

18 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling
Green Independent, Butler County, Campbellsville
Independen, Casey County, Caverna Independent, Clinton
County, Corbin Independent, Cumberland County,
Edmonson County, Glasgow Independent, Green County,
Hart County, Laurel County, Logan County, McCreary
County, Metcalfe County, Monroe County, Pulaski
County, Rockcastle County, Russell County, Russellville
Independent, Somerset Independent, Taylor County,
Warren County, Wayne County, Whitley County,
Williamsburg Independent

Transportation and Logistics

First-Line Supervisors

Aligned Pathways

Agribusiness Systems, Business Management, Management Entrepreneurship, Marketing

27 District(s) have Access to Pathways which Lead to this Occupation

87.1% of Districts in Region

32 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Russell County, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

31 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

42 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Adair County, Allen County, Barren County, Bowling Green Independent, Butler County, Campbellsville Independen, Casey County, Caverna Independent, Clinton County, Corbin Independent, Cumberland County, Edmonson County, Glasgow Independent, Green County, Hart County, Laurel County, Logan County, McCreary County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Russell County, Russellville Independent, Simpson County, Somerset Independent, Taylor County, Warren County, Wayne County, Whitley County, Williamsburg Independent

Transportation and Logistics

Heavy and Tractor-Trailer Truck Drivers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences

15 District(s) have Access to Pathways which Lead to this Occupation

48.4% of Districts in Region

18 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Allen County, Barren County, Butler County, Casey County, Clinton County, Edmonson County, Laurel County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Simpson County, Taylor County, Warren County, Whitley County

Industrial Truck and Tractor Operators	
Aligned Pathways Agricultural Power, Structural, Technical Systems, Heavy Equipment Sciences 15 District(s) have Access to Pathways which Lead to this	Allen County, Barren County, Butler County, Casey County, Clinton County, Edmonson County, Laurel County, Metcalfe County, Monroe County, Pulaski County, Rockcastle County, Simpson County, Taylor
Occupation	County, Warren County, Whitley County
48.4% of Districts in Region	
18 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Transportation and Logistics

	Transportation and Logistics		
Maintenance and Repair Workers, General			
Aligned Pathways	Adair County, Allen County, Barren County, Bowling		
Agricultural Power, Structural, Technical Systems,	Green Independent, Butler County, Campbellsville		
Combination Arc Welder, Computer Numerical Control	Independen, Casey County, Caverna Independent, Clinton		
(CNC) Operator, Computer Numerical Control (CNC)	County, Corbin Independent, Cumberland County,		
Programmer, Fluid Power Mechanic, Gas Metal Arc	Edmonson County, Glasgow Independent, Green County,		
Welder, Industrial Maintenance Electrical Technician,	Hart County, Laurel County, Logan County, Metcalfe		
Machinist Operator, Machinist Technician, Maintenance	County, Monroe County, Pulaski County, Rockcastle		
Machinist, Maintenance Mechanic, Manufacturing	County, Russell County, Russellville Independent,		
Engineering Technology Technician, Manufacturing	Simpson County, Somerset Independent, Taylor County,		
TRACK, Mechanical Designer, Sheet Metal Technician,	Warren County, Wayne County, Whitley County,		
Shielded Metal Arc Welder, Welder - Entry Level, Welding	Williamsburg Independent		
Pipefitters TRACK			
30 District(s) have Access to Pathways which Lead to this			
Occupation			
96.8% of Districts in Region			
35 School(s) Offer Pathways which Lead to this			
Occupation (Note: A school may serve more than one district)			

Transportation and Logistics

Stock, Shipping, and Receiving Clerks	
Aligned Pathways	Adair County, Allen County, Barren County, Casey County,
Agribusiness Systems, Business Management,	Caverna Independent, Clinton County, Corbin
Retail/Wholesaling	Independent, Cumberland County, Glasgow Independent,
20 District(s) have Access to Pathways which Lead to this	Green County, Hart County, Laurel County, Metcalfe
Occupation	County, Monroe County, Pulaski County, Russell County,
64.5% of Districts in Region	Somerset Independent, Taylor County, Warren County,
22 School(s) Offer Pathways which Lead to this	Wayne County
Occupation (Note: A school may serve more than one district)	

Top Occupation Needs in High-Demand Sectors Not Met by District Offerings

- Bus Drivers
- Cargo and Freight Agents
- Emergency Medical Technicians and Paramedics
- Laborers, Packers, Movers
- Lawyers
- Light Truck or Delivery Services Drivers
- Machine Feeders and Offbearers
- Metal-Refining Furnace Operators and Tenders
- Painters, Construction and Maintenance
- Paralegals and Legal Assistants
- Physical Therapists
- Physical Therapist Assistants
- Postal Service Mail Carriers
- Transportation, Storage, and Distribution Managers

KENTUCKY'S SOUTH REGION HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

South Region (2 KCTCS Institutions)

Advanced Manufacturing

First-Line Supervisors of Production and Operating Workers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Business Administration Systems	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Machine Tool Operator	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Computerized Manufacturing and Machining	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Machinist	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Computerized Manufacturing and Machining	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Welders	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Welding Technology	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Computer User Support Specialists	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Computer & Information Technologies, Engineering and	COMMUNITY TECHNICAL COLLEGE
Electronics Technology	
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Business and IT Services

Customer Service Representatives	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Business Administration Systems	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Business and IT Services

General and Operations Managers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Business Administration Systems	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Business and IT Services

General Office Clerks	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Administrative Office Technology,	COMMUNITY TECHNICAL COLLEGE
Business Studies - Business Administration Systems	
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Administrative Office Technology	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
COMMUNITY TECHNICAL COLLEGE

Brickmasons and Blockmasons	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Masonry	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Construction

Carpenters	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Construction Technology	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Construction

Electricians	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
MIT: Electrical Technology	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Construction

General and Operations Managers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Business Administration Systems	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Construction

Heating, Air Conditioning, and Refrigeration Mechanics and Installers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Air Conditioning Technology	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Construction

Painters, Construction and Maintenance	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Construction Technology	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Roofers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Construction Technology	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Construction

Welders, Cutters, Solderers, and Brazers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Welding Technology	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Childcare Workers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Interdisciplinary Early Childhood Education	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Emergency Medical Technicians and Paramedics	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Emergency Medical Services - Paramedic, Fire/Rescue	COMMUNITY TECHNICAL COLLEGE
Science Technology	
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

First-Line Supervisors of Office and Administrative Support Workers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Medical Information Technology	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Licensed Practical and Licensed Vocational Nurses	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Nursing – Academic/Career Mobility Program	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Medical Assistants	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Medical Assisting	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Medical Records and Health Information Technicians	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Business Administration Systems,	COMMUNITY TECHNICAL COLLEGE
Business Studies - Medical Information Technology	
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Medical Secretaries	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Medical Information Technology,	COMMUNITY TECHNICAL COLLEGE
Medical Assisting	
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Nursing Assistants	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Nursing - Integrated Nursing, Nursing Assistant –	COMMUNITY TECHNICAL COLLEGE
Advanced	
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Physical Therapist Assistants	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Physical Therapist Assistant	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

<u>Healthcare</u>

Registered Nurses	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Nursing	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Bus and Truck Mechanics and Diesel Engine Specialists	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE
Diesel Technology	
50% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Transportation and Logistics

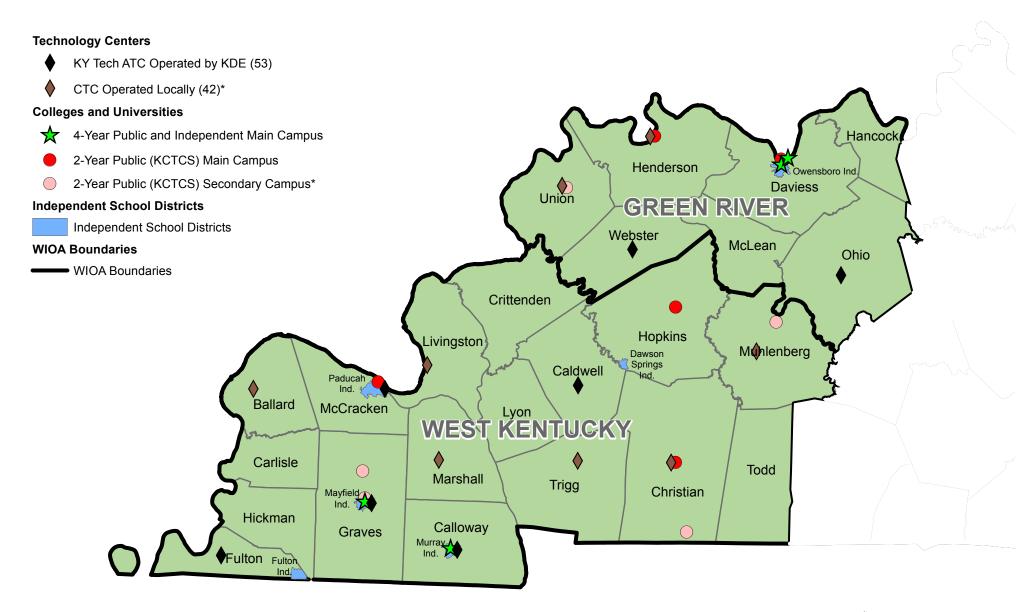
General and Operations Managers	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
Business Studies - Business Administration Systems	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Transportation and Logistics

Maintenance and Repair Workers, General	
Aligned Pathways	SOMERSET COMMUNITY COLLEGE, SOUTHCENTRAL KY
MIT: Industrial Maintenance Technology	COMMUNITY TECHNICAL COLLEGE
100% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

West Region

with Postsecondary Institutions and Technology Centers



West Region High-Demand Industry Sectors and Top Occupations						
	Business & IT Services	Construction	Healthcare	Advanced Manufacturing	Transportation & Logistics	
	This sector comprises professional and financial services, information technology, wholesale trade, and scientific and technical occupations.	This sector comprises occupations primarily engaged in the constuction and maintenance of buildings.	This sector comprises both health care services and social assistance.	This sector comprises occupations in the mechanical, physical or chemicial transformation of materials, substances or components into new products.	This sector comprises occupations in industries providing movement of passengers or cargo, warehousing and storage, and those that plan, direct or coordinate the distribution activities of products.	
	Accountants and Auditors	Construction Laborers	Registered Nurses	Manufacturing Operator/Technician	Heavy and Tractor-Trailer Truck Drivers	
	Managers, All Other	Carpenters	Personal Care Aides	Machine Maintenance Specialist	Laborers, Packers, Movers	
	Management Analysts	Electricians	Nursing Assistants	Machinist	Captains, Mates, and Pilots of Water Vessels	S
	Lawyers	Plumbers, Pipefitters, and Steamfitters	Childcare Workers	Engineers - Process/Manufacturing	Sailors and Marine Oilers	, k
т	Civil Engineers	Painters, Construction and Maintenance	Licensed Practical and Licensed Vocational Nurses	Welders	Industrial Truck and Tractor Operators	gi
0	Mechanical Engineers	Supervisors of Construction and Extraction Workers	Medical Assistants	Machine Tool Operator	First-Line Supervisors	h ¦
р	General and Operations Managers	Construction Managers	Healthcare Managers	Inspectors, Testers, Sorters, Samplers, and Weighers	Postal Service Mail Carriers	
_	Software Developers, Applications	Operating Engineers and Other Construction Equipment Operators	Physicians and Surgeons, All Other	Slaughterers and Meat Packers	Light Truck or Delivery Services Drivers	
C	Office Clerks, General	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Medical Secretaries	Meat, Poultry, and Fish Cutters and Trimmers	Bus Drivers	M s
С	Paralegals and Legal Assistants	General and Operations Managers	Social Workers	Manufacturing Managers	Dispatchers, Except Police, Fire, and Ambulance	i k
u	Computer Systems Analysts	Cost Estimators		First-Line Supervisors of Production and Operating Workers	Ship Engineers	d i
р	Customer Service Representatives	Heavy and Tractor-Trailer Truck Drivers	Dental Assistants	Engineers - Design	Stock, Shipping, and Receiving Clerks	' 1
а	Veterinary Technologists and Technicians	Roofers	Physical Therapists	Metal-Refining Furnace Operators and Tenders	General and Operations Managers	е
t	Photographers	Welders, Cutters, Solderers, and Brazers	Emergency Medical Technicians and Paramedics	Food Batchmakers	Bus and Truck Mechanics and Diesel Engine Specialists	
i	Sales Representatives, Services, All Other	Brickmasons and Blockmasons	Nurse Practitioners	Chemical Plant and System Operators	Maintenance and Repair Workers, General	
0	Market Research Analysts and Marketing Specialists	Cement Masons and Concrete Finishers	First-Line Supervisors of Office and Administrative Support Workers	Production, Planning, and Expediting Clerks	Gas Plant Operators	s
n	Tax Preparers	Sheet Metal Workers	Mental Health Counselors	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	Taxi Drivers and Chauffeurs	L k
S	Software Developers, Systems Software	Electrical Power-Line Installers and Repairers	Medical Records and Health Information Technicians	Heavy and Tractor-Trailer Truck Drivers	Riggers	o i w I
	Architectural and Engineering Managers	Telecommunications Line Installers and Repairers	Medical and Clinical Laboratory Technologists	Architectural and Engineering Managers	Crane and Tower Operators	- 1
	Veterinary Assistants and Laboratory Animal Caretakers	First-Line Supervisors of Mechanics, Installers, and Repairers	Family and General Practitioners		Industrial Machinery Mechanics	
*Top 20 Occupations based on the Forecasted Number of Growth and Replacement job openings over the next 5 years. Occupations not industry specific were removed.						
	Support Sectors					
	Retail Trade	Educational Services	Public Administration	Government	Accomodation and Food Services	
	Agriculture	Entrepreneurship	Media and Visual Arts	Energy		

KENTUCKY'S <u>WEST REGION</u> HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

West Region (30 Districts Participating in CTE)

Advanced Manufacturing

Architectural and Engineering Managers		
Aligned Pathways	Christian County, Daviess County, Graves County,	
Civil Architecture & Construction Technology, Project	Hancock County, Henderson County, Hopkins County,	
Lead the Way (PLTW) - Engineering	Lyon County, McCracken County, Muhlenberg County,	
11 District(s) have Access to Pathways which Lead to this	Owensboro Independent, Trigg County	
Occupation		
36.7% of Districts in Region		
12 School(s) Offer Pathways which Lead to this		
Occupation (Note: A school may serve more than one district)		

Advanced Manufacturing

En	gin	eers	- D	esign
	ייימ	CCIJ		יותונטי

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automotive Engineering/Automotive Maintenance and
Light Repair, Computer Numerical Control (CNC)
Programmer, Electrical Engineering, Engineering &
Technology Design, Fluid Power Mechanic, Industrial
Maintenance Electrical Technician, Machinist Operator,
Machinist Technician, Maintenance Machinist,
Maintenance Mechanic, Manufacturing Engineering
Technology Technician, Mechanical Designer, Project
Lead the Way (PLTW) - Engineering, Robotics &
Automation

25 District(s) have Access to Pathways which Lead to this Occupation

83.3% of Districts in Region

37 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Carlisle County,
Christian County, Crittenden County, Daviess County,
Graves County, Hancock County, Henderson County,
Hickman County, Hopkins County, Livingston County,
Lyon County, Marshall County, Mayfield Independent,
McCracken County, McLean County, Muhlenberg County,
Murray Independent, Ohio County, Owensboro
Independent, Todd County, Trigg County, Union County,
Webster County

Engineers - Process/Manufacturing Christian County, Daviess County, Graves County, **Aligned Pathways** Hancock County, Henderson County, Hopkins County, Electrical Engineering, Engineering & Technology Design, McCracken County, Muhlenberg County, Murray Manufacturing Engineering Technology Technician, Independent, Owensboro Independent, Trigg County, Project Lead the Way (PLTW) - Engineering, Robotics & **Webster County** Automation 12 District(s) have Access to Pathways which Lead to this Occupation 40% of Districts in Region 13 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Advanced Manufacturing

Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic			
Aligned Pathways Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer 14 District(s) have Access to Pathways which Lead to this Occupation 46.7% of Districts in Region 11 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	Calloway County, Carlisle County, Christian County, Daviess County, Graves County, Hancock County, Henderson County, Mayfield Independent, Murray Independent, Ohio County, Owensboro Independent, Todd County, Union County, Webster County		

Advanced Manufacturing

First-Line Supervisors of Production and Operating Workers		
Aligned Pathways	Ballard County, Caldwell County, Calloway County,	
Agribusiness Systems, Agricultural Power, Structural,	Carlisle County, Christian County, Crittenden County,	
Technical Systems, Business Management, Computer	Daviess County, Dawson Springs Independen, Fulton	
Numerical Control (CNC) Operator, Computer Numerical	County, Fulton Independent, Graves County, Hancock	
Control (CNC) Programmer, Machinist Operator,	County, Henderson County, Hickman County, Hopkins	
Machinist Technician, Management Entrepreneurship,	County, Livingston County, Lyon County, Marshall County,	
Manufacturing Engineering Technology Technician,	Mayfield Independent, McCracken County, McLean	
Manufacturing TRACK	County, Muhlenberg County, Murray Independent, Ohio	
29 District(s) have Access to Pathways which Lead to this	County, Owensboro Independent, Todd County, Trigg	
Occupation	County, Union County, Webster County	
96.7% of Districts in Region		
43 School(s) Offer Pathways which Lead to this		
Occupation (Note: A school may serve more than one district)		

Food Batchmakers			
Aligned Pathways Agribiotechnology Systems, Food Science and Processing Systems	Christian County, Daviess County, Graves County		
3 District(s) have Access to Pathways which Lead to this Occupation			
10% of Districts in Region			
3 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)			

Advanced Manufacturing

Heavy and Tractor-Trailer Truck Drivers Aligned Pathways Ballard County, Caldwell County, Carlisle County, Agricultural Power, Structural, Technical Systems, Diesel Christian County, Crittenden County, Daviess County, Graves County, Hancock County, Henderson County, Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Hickman County, Hopkins County, Livingston County, Lyon County, Marshall County, McCracken County, Option, Heavy Equipment Sciences McLean County, Muhlenberg County, Ohio County, 23 District(s) have Access to Pathways which Lead to this Owensboro Independent, Todd County, Trigg County, Occupation Union County, Webster County 76.7% of Districts in Region 27 School(s) Offer Pathways which Lead to this

Advanced Manufacturing

Inspectors, Testers, Sorters, Samplers, and Weighers

Automated Wood Processer, Cabinetmaker, Combination Arc Welder, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Fluid Power Mechanic, Furniture Maker, Gas Metal Arc Welder, Industrial Maintenance Electrical Technician, Industrial Maintenance Welding Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Refrigeration Technician, Retail/Wholesaling, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry

Occupation (Note: A school may serve more than one district)

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

Aligned Pathways

19 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

Machine Maintenance Specialist

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Combination Arc Welder, Computer Numerical Control
(CNC) Operator, Computer Numerical Control (CNC)
Programmer, Fluid Power Mechanic, Gas Metal Arc
Welder, Industrial Maintenance Electrical Technician,
Machinist Operator, Machinist Technician, Maintenance
Machinist, Maintenance Mechanic, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician,
Shielded Metal Arc Welder, Welder - Entry Level, Welding
Pipefitters TRACK

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

41 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

Advanced Manufacturing

Machine Tool Operator

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Machinist Operator, Machinist Technician, Maintenance Mechanic, Manufacturing Engineering Technology Technician, Manufacturing TRACK, Mechanical Designer

26 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

35 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Graves County, Hancock County,
Henderson County, Hickman County, Hopkins County,
Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Todd County, Trigg
County, Union County, Webster County

Machinist

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Computer Numerical Control (CNC) Operator, Computer
Numerical Control (CNC) Programmer, Machinist
Operator, Machinist Technician, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician

26 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

35 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Graves County, Hancock County,
Henderson County, Hickman County, Hopkins County,
Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Todd County, Trigg
County, Union County, Webster County

Advanced Manufacturing

Manufacturing Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Hospitality Services, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

47 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

Manufacturing Operator/Technician

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automated Wood Processer, Cabinetmaker, Computer
Numerical Control (CNC) Operator, Computer Numerical
Control (CNC) Programmer, Fluid Power Mechanic,
Furniture Maker, Industrial Maintenance Electrical
Technician, Machinist Operator, Machinist Technician,
Maintenance Machinist, Maintenance Mechanic,
Manufacturing Engineering Technology Technician,
Manufacturing TRACK, Sheet Metal Technician, Welder Entry Level

28 District(s) have Access to Pathways which Lead to this Occupation

93.3% of Districts in Region

40 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Graves
County, Hancock County, Henderson County, Hickman
County, Hopkins County, Livingston County, Lyon County,
Marshall County, Mayfield Independent, McCracken
County, McLean County, Muhlenberg County, Murray
Independent, Ohio County, Owensboro Independent,
Paducah Independent, Todd County, Trigg County, Union
County, Webster County

Advanced Manufacturing

Meat, Poultry, and Fish Cutters and Trimmers

Aligned Pathways

Agribiotechnology Systems, Animal Science Systems, Food Science and Processing Systems

20 District(s) have Access to Pathways which Lead to this Occupation

66.7% of Districts in Region

23 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Fulton County, Graves County,
Henderson County, Hopkins County, Livingston County,
Marshall County, McCracken County, Muhlenberg
County, Ohio County, Todd County, Trigg County, Union
County, Webster County

Advanced Manufacturing

Production, Planning, and Expediting Clerks

Aligned Pathways

Administrative Support, Business Management, Global Logistics, Management Entrepreneurship, Marketing, Retail/Wholesaling

29 District(s) have Access to Pathways which Lead to this Occupation

96.7% of Districts in Region

41 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Todd County, Trigg
County, Union County, Webster County

Slaughterers and Meat Packers		
Aligned Pathways	Ballard County, Caldwell County, Calloway County,	
Agribiotechnology Systems, Animal Science Systems,	Carlisle County, Christian County, Crittenden County,	
Culinary & Food Services, Food Science and Processing	Daviess County, Dawson Springs Independen, Fulton	
Systems	County, Graves County, Henderson County, Hickman	
24 District(s) have Access to Pathways which Lead to this	County, Hopkins County, Livingston County, Lyon County,	
Occupation	Marshall County, McCracken County, Muhlenberg	
80% of Districts in Region	County, Murray Independent, Ohio County, Todd County,	
28 School(s) Offer Pathways which Lead to this	Trigg County, Union County, Webster County	
Occupation (Note: A school may serve more than one district)		

Advanced Manufacturing

Advancea Manaractaring		
Welders		
Aligned Pathways	Ballard County, Caldwell County, Calloway County,	
Agricultural Power, Structural, Technical Systems,	Carlisle County, Christian County, Crittenden County,	
Combination Arc Welder, Gas Metal Arc Welder,	Daviess County, Dawson Springs Independen, Fulton	
Manufacturing TRACK, Sheet Metal Technician, Shielded	County, Fulton Independent, Graves County, Hancock	
Metal Arc Welder, Welder - Entry Level, Welding	County, Henderson County, Hickman County, Hopkins	
Engineering, Welding Pipefitters TRACK	County, Livingston County, Lyon County, Marshall County,	
30 District(s) have Access to Pathways which Lead to this	Mayfield Independent, McCracken County, McLean	
Occupation	County, Muhlenberg County, Murray Independent, Ohio	
100% of Districts in Region	County, Owensboro Independent, Paducah Independent,	
39 School(s) Offer Pathways which Lead to this	Todd County, Trigg County, Union County, Webster	
Occupation (Note: A school may serve more than one district)	County	

Accountants and Auditors		
Aligned Pathways	Ballard County, Caldwell County, Calloway County,	
Accounting, Finance	Carlisle County, Christian County, Daviess County, Fulton	
20 District(s) have Access to Pathways which Lead to this	Independent, Graves County, Hancock County,	
Occupation	Henderson County, Hopkins County, Marshall County,	
66.7% of Districts in Region	Mayfield Independent, McCracken County, Muhlenberg	
23 School(s) Offer Pathways which Lead to this	County, Murray Independent, Owensboro Independent,	
Occupation (Note: A school may serve more than one district)	Paducah Independent, Todd County, Union County	

Business and IT Services

Architectural and Engineering Managers		
Aligned Pathways Civil Architecture & Construction Technology, Project Lead the Way (PLTW) - Engineering	Christian County, Daviess County, Graves County, Hancock County, Henderson County, Hopkins County, Lyon County, McCracken County, Muhlenberg County,	
11 District(s) have Access to Pathways which Lead to this Occupation	Owensboro Independent, Trigg County	
36.7% of Districts in Region		
12 School(s) Offer Pathways which Lead to this		
Occupation (Note: A school may serve more than one district)		

Business and IT Services

Civil Engineers			
Aligned Pathways	Ballard County, Caldwell County, Calloway County,		
Agricultural Power, Structural, Technical Systems, Civil	Carlisle County, Christian County, Crittenden County,		
Architecture & Construction Technology, Civil Designer,	Daviess County, Graves County, Hancock County,		
Computer Numerical Control (CNC) Operator, Computer	Henderson County, Hickman County, Hopkins County,		
Numerical Control (CNC) Programmer, Project Lead the	Livingston County, Lyon County, Marshall County,		
Way (PLTW) - Engineering	McCracken County, McLean County, Muhlenberg County,		
26 District(s) have Access to Pathways which Lead to this	Murray Independent, Ohio County, Owensboro		
Occupation	Independent, Paducah Independent, Todd County, Trigg		
86.7% of Districts in Region	County, Union County, Webster County		
34 School(s) Offer Pathways which Lead to this]		
Occupation (Note: A school may serve more than one district)			

Computer Systems Analysts		
Aligned Pathways Informatics, Information Support and Services	Christian County, Daviess County, Fulton County, Fulton Independent, Hancock County, Hickman County, Hopkins	
12 District(s) have Access to Pathways which Lead to this Occupation	County, Marshall County, Ohio County, Todd County, Trigg County, Union County	
40% of Districts in Region		
11 School(s) Offer Pathways which Lead to this		
Occupation (Note: A school may serve more than one district)		

Customer Service Representatives

Aligned Pathways

Administrative Support, Agribusiness Systems, Financial Services (Marketing), Hospitality Services, Information Processing, Information Support and Services, Marketing, Retail/Wholesaling

29 District(s) have Access to Pathways which Lead to this Occupation

96.7% of Districts in Region

40 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, Muhlenberg
County, Murray Independent, Ohio County, Owensboro
Independent, Paducah Independent, Todd County, Trigg
County, Union County, Webster County

Business and IT Services

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

46 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

General Office Clerks	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Administrative Support, Agribusiness Systems,	Carlisle County, Christian County, Crittenden County,
Information Processing	Daviess County, Dawson Springs Independen, Fulton
28 District(s) have Access to Pathways which Lead to this	Independent, Graves County, Hancock County,
Occupation	Henderson County, Hickman County, Hopkins County,
93.3% of Districts in Region	Livingston County, Lyon County, Marshall County,
35 School(s) Offer Pathways which Lead to this	Mayfield Independent, McCracken County, Muhlenberg
Occupation (Note: A school may serve more than one district)	County, Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Trigg
	County, Union County, Webster County

Business and IT Services

Management Analysts	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Accounting, Agribusiness Systems, Business	Carlisle County, Christian County, Crittenden County,
Management, Management Entrepreneurship	Daviess County, Dawson Springs Independen, Fulton
27 District(s) have Access to Pathways which Lead to this	County, Fulton Independent, Graves County, Hancock
Occupation	County, Henderson County, Hickman County, Hopkins
90% of Districts in Region	County, Marshall County, Mayfield Independent,
34 School(s) Offer Pathways which Lead to this	McCracken County, McLean County, Muhlenberg County,
Occupation (Note: A school may serve more than one district)	Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Union
	County, Webster County

Managers, All Other	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Accounting, Agribusiness Systems, Business	Carlisle County, Christian County, Crittenden County,
Management, Finance, Hospitality Services, Management	Daviess County, Dawson Springs Independen, Fulton
Entrepreneurship, Retail/Wholesaling	County, Fulton Independent, Graves County, Hancock
27 District(s) have Access to Pathways which Lead to this	County, Henderson County, Hickman County, Hopkins
Occupation	County, Marshall County, Mayfield Independent,
90% of Districts in Region	McCracken County, McLean County, Muhlenberg County,
35 School(s) Offer Pathways which Lead to this	Murray Independent, Ohio County, Owensboro
Occupation (Note: A school may serve more than one district)	Independent, Paducah Independent, Todd County, Union
•	County, Webster County

Market Research Analysts and Marketing Specialists	
Aligned Pathways	Ballard County, Caldwell County, Christian County,
Advertising, Agribusiness Systems, Business	Crittenden County, Daviess County, Dawson Springs
Management, E-Commerce, Marketing	Independen, Fulton County, Fulton Independent, Graves
26 District(s) have Access to Pathways which Lead to this	County, Hancock County, Henderson County, Hickman
Occupation	County, Hopkins County, Livingston County, Marshall
86.7% of Districts in Region	County, Mayfield Independent, McCracken County,
33 School(s) Offer Pathways which Lead to this	McLean County, Muhlenberg County, Murray
Occupation (Note: A school may serve more than one district)	Independent, Ohio County, Owensboro Independent,
, ,	Todd County, Trigg County, Union County, Webster
	County

Business and IT Services

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Automotive Engineering/Automotive Maintenance and
Light Repair, Computer Numerical Control (CNC)
Programmer, Electrical Engineering, Engineering &
Technology Design, Fluid Power Mechanic, Industrial
Maintenance Electrical Technician, Machinist Operator,
Machinist Technician, Maintenance Machinist,
Maintenance Mechanic, Manufacturing Engineering
Technology Technician, Mechanical Designer, Project
Lead the Way (PLTW) - Engineering, Robotics &
Automation

25 District(s) have Access to Pathways which Lead to this Occupation

83.3% of Districts in Region

37 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Carlisle County,
Christian County, Crittenden County, Daviess County,
Graves County, Hancock County, Henderson County,
Hickman County, Hopkins County, Livingston County,
Lyon County, Marshall County, Mayfield Independent,
McCracken County, McLean County, Muhlenberg County,
Murray Independent, Ohio County, Owensboro
Independent, Todd County, Trigg County, Union County,
Webster County

Photographers	
Aligned Pathways	Calloway County, Graves County
Cinematography and Video Production	
2 District(s) have Access to Pathways which Lead to this	
Occupation	
6.7% of Districts in Region	
2 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Sales Representatives	
Aligned Pathways	Ballard County, Caldwell County, Christian County, Graves
Agribusiness Systems, Marketing, Retail/Wholesaling	County, Hancock County, Henderson County, Hopkins
16 District(s) have Access to Pathways which Lead to this	County, Livingston County, Marshall County, McCracken
Occupation	County, Muhlenberg County, Murray Independent, Ohio
53.3% of Districts in Region	County, Owensboro Independent, Trigg County, Webster
18 School(s) Offer Pathways which Lead to this	County
Occupation (Note: A school may serve more than one district)	

Business and IT Services

Software Developers, Applications	
Aligned Pathways	Caldwell County, Christian County, Crittenden County,
Computer Programming, Computer Science, Digital	Daviess County, Dawson Springs Independen, Graves
Design and Game Development, Web	County, Hancock County, Henderson County, Hopkins
Development/Administration	County, Livingston County, Lyon County, McCracken
17 District(s) have Access to Pathways which Lead to this	County, Muhlenberg County, Ohio County, Owensboro
Occupation	Independent, Paducah Independent, Trigg County
56.7% of Districts in Region	
14 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Business and IT Services

Software Developers, Systems Software	
Aligned Pathways	Caldwell County, Christian County, Crittenden County,
Computer Programming, Computer Science, Digital	Daviess County, Dawson Springs Independen, Graves
Design and Game Development, Network Security, Web	County, Hancock County, Henderson County, Hopkins
Development/Administration	County, Livingston County, Lyon County, McCracken
17 District(s) have Access to Pathways which Lead to this	County, Muhlenberg County, Ohio County, Owensboro
Occupation	Independent, Paducah Independent, Trigg County
56.7% of Districts in Region	
14 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Tax Preparers	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Accounting, Finance	Carlisle County, Christian County, Daviess County, Fulton
20 District(s) have Access to Pathways which Lead to this	Independent, Graves County, Hancock County,
Occupation	Henderson County, Hopkins County, Marshall County,
66.7% of Districts in Region	Mayfield Independent, McCracken County, Muhlenberg
23 School(s) Offer Pathways which Lead to this	County, Murray Independent, Owensboro Independent,
Occupation (Note: A school may serve more than one district)	Paducah Independent, Todd County, Union County

Veterinary Assistants and Laboratory Animal Caretakers	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Agribiotechnology Systems, Animal Science Systems,	Carlisle County, Christian County, Crittenden County,
Veterinary Assistant	Daviess County, Fulton County, Graves County,
20 District(s) have Access to Pathways which Lead to this	Henderson County, Hopkins County, Livingston County,
Occupation	Marshall County, McCracken County, Muhlenberg
66.7% of Districts in Region	County, Ohio County, Todd County, Trigg County, Union
23 School(s) Offer Pathways which Lead to this	County, Webster County
Occupation (Note: A school may serve more than one district)	

Veterinary Technologists and Technicians	
Aligned Pathways Agribiotechnology Systems, Animal Science Systems,	Ballard County, Caldwell County, Calloway County, Carlisle County, Christian County, Crittenden County,
Veterinary Assistant	Daviess County, Fulton County, Graves County,
20 District(s) have Access to Pathways which Lead to this	Henderson County, Hopkins County, Livingston County,
Occupation	Marshall County, McCracken County, Muhlenberg
66.7% of Districts in Region	County, Ohio County, Todd County, Trigg County, Union
23 School(s) Offer Pathways which Lead to this	County, Webster County
Occupation (Note: A school may serve more than one district)	

Carpenters Caldwell County, Calloway County, Carlisle County, **Aligned Pathways** Carpenter Assistant, Carpentry-TRACK, Construction Crittenden County, Dawson Springs Independen, Graves County, Hancock County, Henderson County, Livingston Forms Assistant, Residential Carpenter Assistant, County, Lyon County, Marshall County, Mayfield Residential Maintenance Carpenter Assistant Independent, McCracken County, Murray Independent, 18 District(s) have Access to Pathways which Lead to this Ohio County, Owensboro Independent, Paducah Occupation Independent, Trigg County 60% of Districts in Region 10 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Construction

Construction Laborers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

28 District(s) have Access to Pathways which Lead to this Occupation

93.3% of Districts in Region

38 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Graves
County, Hancock County, Henderson County, Hickman
County, Hopkins County, Livingston County, Lyon County,
Marshall County, Mayfield Independent, McCracken
County, McLean County, Muhlenberg County, Murray
Independent, Ohio County, Owensboro Independent,
Paducah Independent, Todd County, Trigg County, Union
County, Webster County

Construction

Construction Managers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Bricklayer Assistant, Carpenter Assistant, Carpentry-TRACK, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Industrial Electrician Assistant, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

28 District(s) have Access to Pathways which Lead to this Occupation

93.3% of Districts in Region

38 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Graves
County, Hancock County, Henderson County, Hickman
County, Hopkins County, Livingston County, Lyon County,
Marshall County, Mayfield Independent, McCracken
County, McLean County, Muhlenberg County, Murray
Independent, Ohio County, Owensboro Independent,
Paducah Independent, Todd County, Trigg County, Union
County, Webster County

Cost Estimators

Aligned Pathways

Architectural Designer, Automated Wood Processer, Bricklayer Assistant, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Civil Designer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrician Assistant, Environmental Control System Servicer Assistant, Furniture Maker, Industrial Electrician Assistant, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

23 District(s) have Access to Pathways which Lead to this Occupation

76.7% of Districts in Region

16 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Caldwell County, Calloway County, Carlisle County,
Christian County, Crittenden County, Daviess County,
Dawson Springs Independen, Graves County, Hancock
County, Henderson County, Livingston County, Lyon
County, Marshall County, Mayfield Independent,
McCracken County, Muhlenberg County, Murray
Independent, Ohio County, Owensboro Independent,
Paducah Independent, Todd County, Trigg County, Union
County

Construction

Electrical Power-Line Installers and Repairers

Aligned Pathways

Electrical Engineering, Electrician Assistant

12 District(s) have Access to Pathways which Lead to this Occupation

40% of Districts in Region

7 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Caldwell County, Christian County, Crittenden County, Daviess County, Dawson Springs Independen, Henderson County, Lyon County, Ohio County, Owensboro Independent, Todd County, Trigg County, Union County

Construction

Electricians

Aligned Pathways

Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Industrial Electrician Assistant, Residential Electrician

16 District(s) have Access to Pathways which Lead to this Occupation

53.3% of Districts in Region

10 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Caldwell County, Carlisle County, Christian County, Crittenden County, Daviess County, Dawson Springs Independen, Graves County, Henderson County, Lyon County, Mayfield Independent, Muhlenberg County, Ohio County, Owensboro Independent, Todd County, Trigg County, Union County

First-Line Supervisors of Mechanics, Installers, and Repairers

Aligned Pathways

Diesel Brake Repairer/Basic Automotive Electricity, Diesel Brake Repairer/Special Problems Option, Diesel Engine/ElectricianTechnician/ Preventative Maintenance Option, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Diesel Front End Mechanic/Special Problems Option, Electrician Assistant, Industrial Electrician Assistant

15 District(s) have Access to Pathways which Lead to this Occupation

50% of Districts in Region

9 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Caldwell County, Christian County, Crittenden County, Daviess County, Dawson Springs Independen, Hancock County, Henderson County, Lyon County, McLean County, Muhlenberg County, Ohio County, Owensboro Independent, Todd County, Trigg County, Union County

Construction

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

46 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

Heating, Air Conditioning, and Refrigeration Mechanics and Installers	
Aligned Pathways	Ballard County, Daviess County, Hancock County,
Electrical Engineering, Environmental Control System	Owensboro Independent, Todd County, Union County
Servicer Assistant, Fluid Power Mechanic, Industrial	
Maintenance Electrical Technician, Maintenance	
Mechanic, Refrigeration Mechanic, Refrigeration	
Technician	
6 District(s) have Access to Pathways which Lead to this	
Occupation	
20% of Districts in Region	
4 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Construction

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways	Ballard County, Caldwell County, Carlisle County,
Agricultural Power, Structural, Technical Systems, Diesel	Christian County, Crittenden County, Daviess County,
Brake Repairer/Basic Automotive Electricity, Diesel	Graves County, Hancock County, Henderson County,
Engine/ElectricianTechnician/Basic Automotive Electricity	Hickman County, Hopkins County, Livingston County,
Option, Heavy Equipment Sciences	Lyon County, Marshall County, McCracken County,
23 District(s) have Access to Pathways which Lead to this	McLean County, Muhlenberg County, Ohio County,
Occupation	Owensboro Independent, Todd County, Trigg County,
76.7% of Districts in Region	Union County, Webster County
27 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Construction

Operating Engineers and Other Construction Equipment Operators	
Aligned Pathways	Ballard County, Caldwell County, Carlisle County,
Agricultural Power, Structural, Technical Systems, Heavy	Christian County, Crittenden County, Daviess County,
Equipment Sciences	Graves County, Hancock County, Henderson County,
23 District(s) have Access to Pathways which Lead to this	Hickman County, Hopkins County, Livingston County,
Occupation	Lyon County, Marshall County, McCracken County,
76.7% of Districts in Region	McLean County, Muhlenberg County, Ohio County,
27 School(s) Offer Pathways which Lead to this	Owensboro Independent, Todd County, Trigg County,
Occupation (Note: A school may serve more than one district)	Union County, Webster County

Plumbers, Pipefitters, and Steamfitters Ballard County, Caldwell County, Calloway County, **Aligned Pathways** Carlisle County, Christian County, Crittenden County, Combination Arc Welder, Environmental Control System Daviess County, Dawson Springs Independen, Fulton Servicer Assistant, Gas Metal Arc Welder, Natural Gas County, Fulton Independent, Graves County, Hancock Pipeline, Plumber Assistant, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding County, Henderson County, Hickman County, Hopkins County, Livingston County, Lyon County, Marshall County, Pipefitters TRACK 28 District(s) have Access to Pathways which Lead to this Mayfield Independent, McCracken County, McLean County, Murray Independent, Ohio County, Owensboro Occupation Independent, Paducah Independent, Todd County, Trigg 93.3% of Districts in Region County, Webster County 16 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Construction

Roofers	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Agricultural Power, Structural, Technical Systems,	Carlisle County, Christian County, Crittenden County,
Carpenter Assistant, Carpentry-TRACK, Construction	Daviess County, Dawson Springs Independen, Graves
Forms Assistant, Residential Carpenter Assistant,	County, Hancock County, Henderson County, Hickman
Residential Maintenance Carpenter Assistant	County, Hopkins County, Livingston County, Lyon County,
28 District(s) have Access to Pathways which Lead to this	Marshall County, Mayfield Independent, McCracken
Occupation	County, McLean County, Muhlenberg County, Murray
93.3% of Districts in Region	Independent, Ohio County, Owensboro Independent,
34 School(s) Offer Pathways which Lead to this	Paducah Independent, Todd County, Trigg County, Union
Occupation (Note: A school may serve more than one district)	County, Webster County

Construction

Sheet Metal Workers	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Combination Arc Welder, Gas Metal Arc Welder,	Carlisle County, Christian County, Crittenden County,
Manufacturing TRACK, Sheet Metal Technician, Shielded	Daviess County, Dawson Springs Independen, Fulton
Metal Arc Welder, Welder - Entry Level, Welding	County, Fulton Independent, Graves County, Hancock
Engineering	County, Henderson County, Hickman County, Hopkins
28 District(s) have Access to Pathways which Lead to this	County, Livingston County, Lyon County, Marshall County,
Occupation	Mayfield Independent, McCracken County, McLean
93.3% of Districts in Region	County, Murray Independent, Ohio County, Owensboro
16 School(s) Offer Pathways which Lead to this	Independent, Paducah Independent, Todd County, Trigg
Occupation (Note: A school may serve more than one district)	County, Webster County

Supervisors of Construction and Extraction Workers

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Carpenter Assistant, Carpentry-TRACK, Construction
Forms Assistant, Construction-Electrical-TRACK,
Electrician Assistant, Environmental Control System
Servicer Assistant, Industrial Electrician Assistant,
Plumber Assistant, Refrigeration Mechanic, Residential
Carpenter Assistant, Residential Electrician, Residential
Maintenance Carpenter Assistant

28 District(s) have Access to Pathways which Lead to this Occupation

93.3% of Districts in Region

38 School(s) Offer Pathways which Lead to this

Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Graves
County, Hancock County, Henderson County, Hickman
County, Hopkins County, Livingston County, Lyon County,
Marshall County, Mayfield Independent, McCracken
County, McLean County, Muhlenberg County, Murray
Independent, Ohio County, Owensboro Independent,
Paducah Independent, Todd County, Trigg County, Union
County, Webster County

Construction

Telecommunications Line Installers and Repairers

Aligned Pathways

Electrical Engineering, Electrician Assistant

12 District(s) have Access to Pathways which Lead to this Occupation

40% of Districts in Region

7 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Caldwell County, Christian County, Crittenden County, Daviess County, Dawson Springs Independen, Henderson County, Lyon County, Ohio County, Owensboro Independent, Todd County, Trigg County, Union County

Construction

Welders, Cutters, Solderers, and Brazers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Combination Arc Welder, Gas Metal Arc Welder, Manufacturing TRACK, Sheet Metal Technician, Shielded Metal Arc Welder, Welder - Entry Level, Welding Engineering, Welding Pipefitters TRACK

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

39 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

Childcare Workers	
Aligned Pathways	Caldwell County, Christian County, Crittenden County,
Early Childhood Education	Daviess County, Graves County, Henderson County,
17 District(s) have Access to Pathways which Lead to this	Livingston County, Marshall County, McCracken County,
Occupation	McLean County, Muhlenberg County, Ohio County,
56.7% of Districts in Region	Owensboro Independent, Paducah Independent, Todd
19 School(s) Offer Pathways which Lead to this	County, Trigg County, Webster County
Occupation (Note: A school may serve more than one district)	

Healthcare

Dental Assistants	
Aligned Pathways	Ballard County, Christian County, Daviess County,
Allied Health, Dental Technology	Hancock County, Henderson County, Hopkins County,
17 District(s) have Access to Pathways which Lead to this	Marshall County, McCracken County, McLean County,
Occupation	Muhlenberg County, Ohio County, Owensboro
56.7% of Districts in Region	Independent, Paducah Independent, Todd County, Trigg
15 School(s) Offer Pathways which Lead to this	County, Union County, Webster County
Occupation (Note: A school may serve more than one district)	

<u>Healthcare</u>

Emergency Medical Technicians and Paramedics	
Aligned Pathways	Hopkins County, Muhlenberg County, Ohio County,
Emergency Medical Technician	Webster County
4 District(s) have Access to Pathways which Lead to this	
Occupation	
13.3% of Districts in Region	
3 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

<u>Healthcare</u>

Family and General Practitioners	
Aligned Pathways	Christian County, Marshall County, McCracken County, Muhlenberg County
PLTW Biomedical Sciences 4 District(s) have Access to Pathways which Lead to this	Withlieffberg County
Occupation	
13.3% of Districts in Region	
4 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	

First-Line Supervisors of Office and Administrative Support Workers Ballard County, Caldwell County, Calloway County, **Aligned Pathways** Administrative Support, Agribusiness Systems, Carlisle County, Christian County, Crittenden County, Daviess County, Dawson Springs Independen, Fulton Information Processing, Management Entrepreneurship, Independent, Graves County, Hancock County, **Medical Administrative Assisting** Henderson County, Hickman County, Hopkins County, 28 District(s) have Access to Pathways which Lead to this Livingston County, Lyon County, Marshall County, Occupation Mayfield Independent, McCracken County, Muhlenberg 93.3% of Districts in Region County, Murray Independent, Ohio County, Owensboro 35 School(s) Offer Pathways which Lead to this Independent, Paducah Independent, Todd County, Trigg Occupation (Note: A school may serve more than one district) County, Union County, Webster County

Healthcare

Healthcare Managers	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Medical Administrative Assisting, Pre-Nursing	Carlisle County, Christian County, Crittenden County,
28 District(s) have Access to Pathways which Lead to this	Dawson Springs Independen, Fulton County, Fulton
Occupation	Independent, Graves County, Hancock County,
93.3% of Districts in Region	Henderson County, Hickman County, Hopkins County,
25 School(s) Offer Pathways which Lead to this	Livingston County, Lyon County, Marshall County,
Occupation (Note: A school may serve more than one district)	Mayfield Independent, McCracken County, Muhlenberg
	County, Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Trigg
	County, Union County, Webster County

Licensed Practical and Licensed Vocational Nurses	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Pre-Nursing	Carlisle County, Christian County, Crittenden County,
28 District(s) have Access to Pathways which Lead to this	Dawson Springs Independen, Fulton County, Fulton
Occupation	Independent, Graves County, Hancock County,
93.3% of Districts in Region	Henderson County, Hickman County, Hopkins County,
25 School(s) Offer Pathways which Lead to this	Livingston County, Lyon County, Marshall County,
Occupation (Note: A school may serve more than one district)	Mayfield Independent, McCracken County, Muhlenberg
	County, Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Trigg
	County, Union County, Webster County

Medical and Clinical Laboratory Technologists	
Aligned Pathways	Christian County, Marshall County, McCracken County,
Phlebotomy Technician, PLTW Biomedical Sciences	Muhlenberg County, Trigg County
5 District(s) have Access to Pathways which Lead to this	
Occupation	
16.7% of Districts in Region	
5 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Healthcare

Medical Assistants	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Allied Health, Medical Administrative Assisting, Pre-	Carlisle County, Christian County, Crittenden County,
Nursing	Daviess County, Dawson Springs Independen, Fulton
30 District(s) have Access to Pathways which Lead to this	County, Fulton Independent, Graves County, Hancock
Occupation	County, Henderson County, Hickman County, Hopkins
100% of Districts in Region	County, Livingston County, Lyon County, Marshall County,
28 School(s) Offer Pathways which Lead to this	Mayfield Independent, McCracken County, McLean
Occupation (Note: A school may serve more than one district)	County, Muhlenberg County, Murray Independent, Ohio
	County, Owensboro Independent, Paducah Independent,
	Todd County, Trigg County, Union County, Webster
	County

Medical Records and Health Information Technicians	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Administrative Support, Informatics, Medical	Carlisle County, Christian County, Crittenden County,
Administrative Assisting, Medical Business Office	Daviess County, Dawson Springs Independen, Fulton
26 District(s) have Access to Pathways which Lead to this	Independent, Graves County, Hancock County,
Occupation	Henderson County, Hopkins County, Livingston County,
86.7% of Districts in Region	Lyon County, Marshall County, Mayfield Independent,
30 School(s) Offer Pathways which Lead to this	McCracken County, Muhlenberg County, Murray
Occupation (Note: A school may serve more than one district)	Independent, Ohio County, Owensboro Independent,
	Todd County, Trigg County, Union County, Webster
	County

Medical Secretaries	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Administrative Support, Information Processing, Medical	Carlisle County, Christian County, Crittenden County,
Administrative Assisting, Medical Business Office	Daviess County, Dawson Springs Independen, Fulton
28 District(s) have Access to Pathways which Lead to this	Independent, Graves County, Hancock County,
Occupation	Henderson County, Hickman County, Hopkins County,
93.3% of Districts in Region	Livingston County, Lyon County, Marshall County,
32 School(s) Offer Pathways which Lead to this	Mayfield Independent, McCracken County, Muhlenberg
Occupation (Note: A school may serve more than one district)	County, Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Trigg
	County, Union County, Webster County

<u>Healthcare</u>

Mental Health Counselors	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Consumer & Family Management	Christian County, Crittenden County, Daviess County,
20 District(s) have Access to Pathways which Lead to this	Hancock County, Henderson County, Hickman County,
Occupation	Hopkins County, Livingston County, Lyon County,
66.7% of Districts in Region	Marshall County, Mayfield Independent, McCracken
22 School(s) Offer Pathways which Lead to this	County, McLean County, Muhlenberg County, Todd
Occupation (Note: A school may serve more than one district)	County, Trigg County, Webster County

Nurse Practitioners	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Pre-Nursing	Carlisle County, Christian County, Crittenden County,
28 District(s) have Access to Pathways which Lead to this	Dawson Springs Independen, Fulton County, Fulton
Occupation	Independent, Graves County, Hancock County,
93.3% of Districts in Region	Henderson County, Hickman County, Hopkins County,
25 School(s) Offer Pathways which Lead to this	Livingston County, Lyon County, Marshall County,
Occupation (Note: A school may serve more than one district)	Mayfield Independent, McCracken County, Muhlenberg
	County, Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Trigg
	County, Union County, Webster County

Nursing Assistants	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Pre-Nursing	Carlisle County, Christian County, Crittenden County,
28 District(s) have Access to Pathways which Lead to this	Dawson Springs Independen, Fulton County, Fulton
Occupation	Independent, Graves County, Hancock County,
93.3% of Districts in Region	Henderson County, Hickman County, Hopkins County,
25 School(s) Offer Pathways which Lead to this	Livingston County, Lyon County, Marshall County,
Occupation (Note: A school may serve more than one district)	Mayfield Independent, McCracken County, Muhlenberg
,	County, Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Trigg
	County, Union County, Webster County

Healthcare

Personal Care Aides	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Allied Health, Pre-Nursing	Carlisle County, Christian County, Crittenden County,
30 District(s) have Access to Pathways which Lead to this	Daviess County, Dawson Springs Independen, Fulton
Occupation	County, Fulton Independent, Graves County, Hancock
100% of Districts in Region	County, Henderson County, Hickman County, Hopkins
28 School(s) Offer Pathways which Lead to this	County, Livingston County, Lyon County, Marshall County,
Occupation (Note: A school may serve more than one district)	Mayfield Independent, McCracken County, McLean
	County, Muhlenberg County, Murray Independent, Ohio
	County, Owensboro Independent, Paducah Independent,
	Todd County, Trigg County, Union County, Webster
	County

<u>Healthcare</u>

Physical Therapists	
Aligned Pathways	McCracken County
Sports Medicine	
1 District(s) have Access to Pathways which Lead to this	
Occupation	
3.3% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Physicians and Surgeons, All Other	
Aligned Pathways	Christian County, Marshall County, McCracken County,
PLTW Biomedical Sciences	Muhlenberg County
4 District(s) have Access to Pathways which Lead to this	
Occupation	
13.3% of Districts in Region	
4 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Registered Nurses	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Pre-Nursing Pre-Nursing	Carlisle County, Christian County, Crittenden County,
28 District(s) have Access to Pathways which Lead to this	Dawson Springs Independen, Fulton County, Fulton
Occupation	Independent, Graves County, Hancock County,
93.3% of Districts in Region	Henderson County, Hickman County, Hopkins County,
25 School(s) Offer Pathways which Lead to this	Livingston County, Lyon County, Marshall County,
Occupation (Note: A school may serve more than one district)	Mayfield Independent, McCracken County, Muhlenberg
,	County, Murray Independent, Ohio County, Owensboro
	Independent, Paducah Independent, Todd County, Trigg
	County, Union County, Webster County

<u>Healthcare</u>

Social and Human Service Assistants	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Consumer & Family Management	Christian County, Crittenden County, Daviess County,
20 District(s) have Access to Pathways which Lead to this	Hancock County, Henderson County, Hickman County,
Occupation	Hopkins County, Livingston County, Lyon County,
66.7% of Districts in Region	Marshall County, Mayfield Independent, McCracken
22 School(s) Offer Pathways which Lead to this	County, McLean County, Muhlenberg County, Todd
Occupation (Note: A school may serve more than one district)	County, Trigg County, Webster County

Social Workers	
Aligned Pathways	Ballard County, Caldwell County, Calloway County,
Consumer & Family Management	Christian County, Crittenden County, Daviess County,
20 District(s) have Access to Pathways which Lead to this	Hancock County, Henderson County, Hickman County,
Occupation	Hopkins County, Livingston County, Lyon County,
66.7% of Districts in Region	Marshall County, Mayfield Independent, McCracken
22 School(s) Offer Pathways which Lead to this	County, McLean County, Muhlenberg County, Todd
Occupation (Note: A school may serve more than one district)	County, Trigg County, Webster County

Bus and Truck Mechanics and Diesel Engine Specialists	
Aligned Pathways	Ballard County, Caldwell County, Carlisle County,
Agricultural Power, Structural, Technical Systems,	Christian County, Crittenden County, Daviess County,
Automotive Engineering/Automotive Maintenance and	Graves County, Hancock County, Henderson County,
Light Repair, Diesel Brake Repairer/Basic Automotive	Hickman County, Hopkins County, Livingston County,
Electricity, Diesel Engine/ElectricianTechnician/Basic	Lyon County, Marshall County, McCracken County,
Automotive Electricity Option	McLean County, Muhlenberg County, Ohio County,
23 District(s) have Access to Pathways which Lead to this	Owensboro Independent, Todd County, Trigg County,
Occupation	Union County, Webster County
76.7% of Districts in Region	
27 School(s) Offer Pathways which Lead to this	
Occupation (Note: A school may serve more than one district)	

Transportation and Logistics

Dispatchers, Except Police, Fire, and Ambulan	ce
Aligned Pathways	Ca

Automobile Service Technician, Automotive
Engineering/Automotive Maintenance and Light Repair,
Automotive Maintenance and Light Repair Technician,
Diesel Brake Repairer/Basic Automotive Electricity, Diesel
Engine/ElectricianTechnician/Basic Automotive Electricity
Option, Entry Level Non-Structural Damage and Repair
Technician

24 District(s) have Access to Pathways which Lead to this Occupation

80% of Districts in Region

12 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Caldwell County, Calloway County, Christian County,
Crittenden County, Daviess County, Dawson Springs
Independen, Fulton County, Fulton Independent, Graves
County, Hancock County, Henderson County, Hickman
County, Livingston County, Lyon County, Marshall County,
McCracken County, McLean County, Murray
Independent, Ohio County, Owensboro Independent,
Paducah Independent, Todd County, Trigg County, Union
County

Transportation and Logistics

First-Line Supervisors	
Aligned Pathways	Ballard County, Caldwell County, Christian County,
Agribusiness Systems, Business Management,	Crittenden County, Daviess County, Dawson Springs
Management Entrepreneurship, Marketing	Independen, Fulton County, Fulton Independent, Graves
26 District(s) have Access to Pathways which Lead to this	County, Hancock County, Henderson County, Hickman
Occupation	County, Hopkins County, Livingston County, Marshall
86.7% of Districts in Region	County, Mayfield Independent, McCracken County,
33 School(s) Offer Pathways which Lead to this	McLean County, Muhlenberg County, Murray
Occupation (Note: A school may serve more than one district)	Independent, Ohio County, Owensboro Independent,
	Todd County, Trigg County, Union County, Webster
	County

General and Operations Managers

Aligned Pathways

Agribusiness Systems, Agricultural Power, Structural, Technical Systems, Automated Wood Processer, Bricklayer Assistant, Business Management, Cabinetmaker, Carpenter Assistant, Carpentry-TRACK, Computer Numerical Control (CNC) Operator, Computer Numerical Control (CNC) Programmer, Construction Forms Assistant, Construction-Electrical-TRACK, Electrical Engineering, Electrician Assistant, Environmental Control System Servicer Assistant, Fluid Power Mechanic, Furniture Maker, Industrial Electrician Assistant, Industrial Maintenance Electrical Technician, Machinist Operator, Machinist Technician, Maintenance Machinist, Maintenance Mechanic, Management Entrepreneurship, Manufacturing TRACK, Mason Apprentice, Plumber Assistant, Refrigeration Mechanic, Residential Carpenter Assistant, Residential Electrician, Residential Maintenance Carpenter Assistant

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

46 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

Transportation and Logistics

Heavy and Tractor-Trailer Truck Drivers

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Diesel Brake Repairer/Basic Automotive Electricity, Diesel Engine/ElectricianTechnician/Basic Automotive Electricity Option, Heavy Equipment Sciences

23 District(s) have Access to Pathways which Lead to this Occupation

76.7% of Districts in Region

27 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Carlisle County, Christian County, Crittenden County, Daviess County, Graves County, Hancock County, Henderson County, Hickman County, Hopkins County, Livingston County, Lyon County, Marshall County, McCracken County, McLean County, Muhlenberg County, Ohio County, Owensboro Independent, Todd County, Trigg County, Union County, Webster County

Industrial Machinery Mechanics

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Computer Numerical Control (CNC) Operator, Computer
Numerical Control (CNC) Programmer, Fluid Power
Mechanic, Industrial Maintenance Electrical Technician,
Machinist Operator, Machinist Technician, Maintenance
Machinist, Maintenance Mechanic, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician

26 District(s) have Access to Pathways which Lead to this Occupation

86.7% of Districts in Region

36 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Graves County, Hancock County,
Henderson County, Hickman County, Hopkins County,
Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Todd County, Trigg
County, Union County, Webster County

Transportation and Logistics

Industrial Truck and Tractor Operators

Aligned Pathways

Agricultural Power, Structural, Technical Systems, Heavy Equipment Sciences

23 District(s) have Access to Pathways which Lead to this Occupation

76.7% of Districts in Region

27 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Carlisle County, Christian County, Crittenden County, Daviess County, Graves County, Hancock County, Henderson County, Hickman County, Hopkins County, Livingston County, Lyon County, Marshall County, McCracken County, McLean County, Muhlenberg County, Ohio County, Owensboro Independent, Todd County, Trigg County, Union County, Webster County

Transportation and Logistics

Maintenance and Repair Workers, General

Aligned Pathways

Agricultural Power, Structural, Technical Systems,
Combination Arc Welder, Computer Numerical Control
(CNC) Operator, Computer Numerical Control (CNC)
Programmer, Fluid Power Mechanic, Gas Metal Arc
Welder, Industrial Maintenance Electrical Technician,
Machinist Operator, Machinist Technician, Maintenance
Machinist, Maintenance Mechanic, Manufacturing
Engineering Technology Technician, Manufacturing
TRACK, Mechanical Designer, Sheet Metal Technician,
Shielded Metal Arc Welder, Welder - Entry Level, Welding
Pipefitters TRACK

30 District(s) have Access to Pathways which Lead to this Occupation

100% of Districts in Region

41 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)

Ballard County, Caldwell County, Calloway County,
Carlisle County, Christian County, Crittenden County,
Daviess County, Dawson Springs Independen, Fulton
County, Fulton Independent, Graves County, Hancock
County, Henderson County, Hickman County, Hopkins
County, Livingston County, Lyon County, Marshall County,
Mayfield Independent, McCracken County, McLean
County, Muhlenberg County, Murray Independent, Ohio
County, Owensboro Independent, Paducah Independent,
Todd County, Trigg County, Union County, Webster
County

Ship Engineers	
Aligned Pathways	Owensboro Independent
Manufacturing Engineering Technology Technician	
1 District(s) have Access to Pathways which Lead to this	
Occupation	
3.3% of Districts in Region	
1 School(s) Offer Pathways which Lead to this Occupation	
(Note: A school may serve more than one district)	

Transportation and Logistics

Stock, Shipping, and Receiving Clerks	
Aligned Pathways Agribusiness Systems, Business Management, Retail/Wholesaling	Ballard County, Caldwell County, Christian County, Crittenden County, Daviess County, Dawson Springs Independen, Fulton County, Fulton Independent, Graves
23 District(s) have Access to Pathways which Lead to this Occupation	County, Hancock County, Henderson County, Hickman County, Hopkins County, Marshall County, Mayfield
76.7% of Districts in Region 28 School(s) Offer Pathways which Lead to this Occupation (Note: A school may serve more than one district)	Independent, McLean County, Muhlenberg County, Murray Independent, Ohio County, Owensboro Independent, Todd County, Union County, Webster County

Top Occupation Needs in High-Demand Sectors Not Met by District Offerings

- Brickmasons and Blockmasons
- Bus Drivers
- Captains, Mates, and Pilots of Water Vessels
- Cement Masons and Concrete Finishers
- Chemical Plant and System Operators
- Crane and Tower Operators
- Gas Plant Operators
- Laborers, Packers, Movers
- Lawyers
- Light Truck or Delivery Services Drivers
- Metal-Refining Furnace Operators and Tenders
- Painters, Construction and Maintenance
- Paralegals and Legal Assistants
- Postal Service Mail Carriers
- Riggers
- Sailors and Marine Oilers
- Taxi Drivers and Chauffeurs

KENTUCKY'S <u>WEST REGION</u> HIGH-DEMAND INDUSTRY SECTORS AND TOP OCCUPATIONS NEEDS ANALYSIS

West Region (5 KCTCS Institutions)

Advanced Manufacturing

Chemical Plant and System Operators	
Aligned Pathways	WEST KY COMMUNITY AND TECHNICAL COLLEGE
Applied Process Technologies	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

First-Line Supervisors of Production and Operating Workers	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Business Administration Systems	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Advanced Manufacturing

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways	HOPKINSVILLE CC-MAIN
Truck Driver Training	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Machine Tool Operator	
Aligned Pathways	HOPKINSVILLE CC-MAIN, OWENSBORO CTC-MAIN, WEST
Computerized Manufacturing and Machining	KY COMMUNITY AND TECHNICAL COLLEGE
60% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Advanced Manufacturing

Machinist	
Aligned Pathways	HOPKINSVILLE CC-MAIN, OWENSBORO CTC-MAIN, WEST
Computerized Manufacturing and Machining	KY COMMUNITY AND TECHNICAL COLLEGE
60% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Welders	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, MADISONVILLE
Welding Technology	COMMUNITY COLLEGE, OWENSBORO CTC-MAIN, WEST
80% of Schools in KCTCS	KY COMMUNITY AND TECHNICAL COLLEGE
4 School(s) Offer Pathways which Lead to this Occupation	

Customer Service Representatives	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Business Administration Systems	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Business and IT Services

General and Operations Managers	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Business Administration Systems	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Business and IT Services

General Office Clerks	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Administrative Office Technology,	MAIN, MADISONVILLE COMMUNITY COLLEGE,
Business Studies - Business Administration Systems	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
100% of Schools in KCTCS	TECHNICAL COLLEGE
5 School(s) Offer Pathways which Lead to this Occupation	

Business and IT Services

Paralegals and Legal Assistants	
Aligned Pathways	HOPKINSVILLE CC-MAIN, MADISONVILLE COMMUNITY
Business Studies - Administrative Office Technology,	COLLEGE, OWENSBORO CTC-MAIN, WEST KY
Paralegal Technology	COMMUNITY AND TECHNICAL COLLEGE
80% of Schools in KCTCS	
4 School(s) Offer Pathways which Lead to this Occupation	

Business and IT Services

Tax Preparers	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Business Administration Systems	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Veterinary Technologists and Technicians	
Aligned Pathways	OWENSBORO CTC-MAIN
Veterinary Technology	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Carpenters	
Aligned Pathways	HOPKINSVILLE CC-MAIN, OWENSBORO CTC-MAIN, WEST
Construction Technology	KY COMMUNITY AND TECHNICAL COLLEGE
60% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Construction

Electrical Power-Line Installers and Repairers	
Aligned Pathways	MADISONVILLE COMMUNITY COLLEGE, WEST KY
Applied Process Technologies, Energy Technologies	COMMUNITY AND TECHNICAL COLLEGE
40% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Construction

Electricians	
Aligned Pathways	HOPKINSVILLE CC-MAIN, OWENSBORO CTC-MAIN, WEST
MIT: Electrical Technology	KY COMMUNITY AND TECHNICAL COLLEGE
60% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Construction

General and Operations Managers	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Business Administration Systems	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Construction

Heating, Air Conditioning, and Refrigeration Mechanics and Installers	
Aligned Pathways	HOPKINSVILLE CC-MAIN, MADISONVILLE COMMUNITY
Advanced Integrated Technology, Air Conditioning	COLLEGE, OWENSBORO CTC-MAIN, WEST KY
Technology	COMMUNITY AND TECHNICAL COLLEGE
80% of Schools in KCTCS	
4 School(s) Offer Pathways which Lead to this Occupation	

Construction

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways	HOPKINSVILLE CC-MAIN
Truck Driver Training	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Painters, Construction and Maintenance	
Aligned Pathways	HOPKINSVILLE CC-MAIN, OWENSBORO CTC-MAIN, WEST
Construction Technology	KY COMMUNITY AND TECHNICAL COLLEGE
60% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Construction

Plumbers, Pipefitters, and Steamfitters	
Aligned Pathways	WEST KY COMMUNITY AND TECHNICAL COLLEGE
Plumbing Technology	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Construction

Roofers	
Aligned Pathways	HOPKINSVILLE CC-MAIN, OWENSBORO CTC-MAIN, WEST
Construction Technology	KY COMMUNITY AND TECHNICAL COLLEGE
60% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Construction

Supervisors of Construction and Extraction Workers	
Aligned Pathways	MADISONVILLE COMMUNITY COLLEGE
Mining Technology	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Construction

Telecommunications Line Installers and Repairers	
Aligned Pathways	HOPKINSVILLE CC-MAIN, MADISONVILLE COMMUNITY
Energy Technologies, Engineering and Electronics	COLLEGE, OWENSBORO CTC-MAIN, WEST KY
Technology, MIT: Electrical Technology	COMMUNITY AND TECHNICAL COLLEGE
80% of Schools in KCTCS	
4 School(s) Offer Pathways which Lead to this Occupation	

Construction

Welders, Cutters, Solderers, and Brazers	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, MADISONVILLE
Welding Technology	COMMUNITY COLLEGE, OWENSBORO CTC-MAIN, WEST
80% of Schools in KCTCS	KY COMMUNITY AND TECHNICAL COLLEGE
4 School(s) Offer Pathways which Lead to this Occupation	

Childcare Workers	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Interdisciplinary Early Childhood Education	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Healthcare

Dental Assistants	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, WEST KY
Dental Assisting/Dental Hygiene Integrated Program	COMMUNITY AND TECHNICAL COLLEGE
40% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Emergency Medical Technicians and Paramedics	
Aligned Pathways	MADISONVILLE COMMUNITY COLLEGE, OWENSBORO
Emergency Medical Services - Paramedic, Fire/Rescue	CTC-MAIN, WEST KY COMMUNITY AND TECHNICAL
Science Technology	COLLEGE
60% of Schools in KCTCS	
3 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

First-Line Supervisors of Office and Administrative Support Workers	
Aligned Pathways	HOPKINSVILLE CC-MAIN, MADISONVILLE COMMUNITY
Business Studies - Medical Information Technology	COLLEGE, OWENSBORO CTC-MAIN, WEST KY
80% of Schools in KCTCS	COMMUNITY AND TECHNICAL COLLEGE
4 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Licensed Practical and Licensed Vocational Nurses	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Nursing – Academic/Career Mobility Program	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Medical Assistants	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE
Medical Assisting	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Medical Records and Health Information Technicians	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Business Administration Systems,	MAIN, MADISONVILLE COMMUNITY COLLEGE,
Business Studies - Medical Information Technology,	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
Health Information Technology	TECHNICAL COLLEGE
100% of Schools in KCTCS	
5 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Medical Secretaries	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Medical Information Technology,	MAIN, MADISONVILLE COMMUNITY COLLEGE,
Health Information Technology, Medical Assisting	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
100% of Schools in KCTCS	TECHNICAL COLLEGE
5 School(s) Offer Pathways which Lead to this Occupation	

Healthcare

Nursing Assistants	
Aligned Pathways Nursing - Integrated Nursing, Nursing Assistant –	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-MAIN, MADISONVILLE COMMUNITY COLLEGE,
Advanced	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND TECHNICAL COLLEGE
100% of Schools in KCTCS	TECHNICAL COLLEGE
5 School(s) Offer Pathways which Lead to this Occupation	

<u>Healthcare</u>

Registered Nurses	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Nursing	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Bus and Truck Mechanics and Diesel Engine Specialists	
Aligned Pathways	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
Diesel Technology	TECHNICAL COLLEGE
40% of Schools in KCTCS	
2 School(s) Offer Pathways which Lead to this Occupation	

Transportation and Logistics

General and Operations Managers	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Business Studies - Business Administration Systems	MAIN, MADISONVILLE COMMUNITY COLLEGE,
100% of Schools in KCTCS	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
5 School(s) Offer Pathways which Lead to this Occupation	TECHNICAL COLLEGE

Transportation and Logistics

Heavy and Tractor-Trailer Truck Drivers	
Aligned Pathways	HOPKINSVILLE CC-MAIN
Truck Driver Training	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Transportation and Logistics

Industrial Machinery Mechanics	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
Mining Technology, MIT: Industrial Maintenance	MAIN, MADISONVILLE COMMUNITY COLLEGE,
Technology	OWENSBORO CTC-MAIN, WEST KY COMMUNITY AND
100% of Schools in KCTCS	TECHNICAL COLLEGE
5 School(s) Offer Pathways which Lead to this Occupation	

Transportation and Logistics

Maintenance and Repair Workers, General	
Aligned Pathways	HENDERSON COMMUNITY COLLEGE, HOPKINSVILLE CC-
MIT: Industrial Maintenance Technology	MAIN, OWENSBORO CTC-MAIN, WEST KY COMMUNITY
80% of Schools in KCTCS	AND TECHNICAL COLLEGE
4 School(s) Offer Pathways which Lead to this Occupation	

Transportation and Logistics

Sailors and Marine Oilers	
Aligned Pathways	WEST KY COMMUNITY AND TECHNICAL COLLEGE
Marine Technology	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	

Ship Engineers	
Aligned Pathways	WEST KY COMMUNITY AND TECHNICAL COLLEGE
Marine Technology	
20% of Schools in KCTCS	
1 School(s) Offer Pathways which Lead to this Occupation	