



**Kentucky Department of**

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**Education**



# Labor Market Information and Career and Technical Education

CTECS Community of Practice

September 12, 2017

Lexington, KY

# Welcome

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# What is Labor Market Information?

- ▶ **Employment Outlook**
- ▶ **Growth and Replacement Projections**
- ▶ **Salaries**
- ▶ **Regional Distribution**
- ▶ **Industry Sectors**



# Where does KDE get Labor Market Information?

- ▶ **Kentucky Center for Education & Workforce Statistics (KCEWS)**
- ▶ [https://kcews.ky.gov/Content/Reports/KYFS\\_2016\\_Technical\\_Notes.pdf](https://kcews.ky.gov/Content/Reports/KYFS_2016_Technical_Notes.pdf)
  - Occupational Outlook
  - BLS Occupational Projections
  - BLS Occupational Employment Statistics wage data
  - BLS Industry Occupation Matrix Data



# Why is this important information?

- ▶ **Future Workforce**
- ▶ **Economic Development**
- ▶ **Pathway Alignment**
- ▶ **Career Counseling**
- ▶ **KY Initiatives – Work Ready Skills Initiative, New Skills For Youth, Work Ready Scholarship Program**



# What is an Industry Sector and what are the top sectors in KY?

A group of companies that operate in the same segment of the **economy** or share a similar business type.

## Kentucky's Top Employment Sectors:

- Business and IT Services
- Construction
- Health Care
- Manufacturing
- Transportation

*\*Provided by Kentucky Cabinet for Economic Development*





# What are the occupations that make up the sectors?

**Kentucky High-Demand Industry Sectors and Top Occupations**

	<b>Business &amp; IT Services</b>	<b>Construction</b>	<b>Healthcare</b>	<b>Advanced Manufacturing</b>	<b>Transportation &amp; Logistics</b>
	This sector comprises professional and financial services, information technology, wholesale trade, and scientific and technical occupations.	This sector comprises occupations primarily engaged in the construction and maintenance of buildings.	This sector comprises both health care services and social assistance.	This sector comprises occupations in the mechanical, physical or chemical 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
<b>T O P O C C U P A T I O N S</b>	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
	Management Analysts	Electricians	Nursing Assistants	Machinist	Light Truck or Delivery Services Drivers
	Lawyers	Painters, Construction and	Childcare Workers	Engineers - Process/Manufacturing	Industrial Truck and Tractor Operators
	Software Developers, Applications	Plumbers, Pipefitters, and	Medical Assistants	Machine Tool Operator	Stock, Shipping, and Receiving Clerks
	Computer Systems Analysts	Supervisors of Construction and Extraction Workers	Licensed Practical and Licensed Vocational Nurses	Inspectors, Testers, Sorters, Samplers, and Weighers	First-Line Supervisors
	General and Operations Managers	Construction Managers	Healthcare Managers	Welders	Postal Service Mail Carriers
	General Office Clerks	Heating, Air Conditioning, and Refrigeration Mechanics and	Social Workers	First-Line Supervisors of Production and Operating Workers	Captains, Mates, and Pilots of Water Vessels
	Civil Engineers	Operating Engineers and Other Construction Equipment Operators	Medical Secretaries	Manufacturing Managers	Cargo and Freight Agents
	Customer Service Representatives	General and Operations Managers	Physicians and Surgeons, All Other	Engineers - Design	Bus Drivers
	Software Developers, Systems Software	Electrical Power-Line Installers and Repairers	Physical Therapists	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	Dispatchers, Except Police, Fire, and Ambulance
	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 Engine Specialists
	Computer User Support Specialists	Cement Masons and Concrete Finishers	Emergency Medical Technicians and Paramedics	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
	Mechanical Engineers	Welders, Cutters, Solderers, and Brazers	Nurse Practitioners	Heavy and Tractor-Trailer Truck Drivers	Aircraft Mechanics and Service Technicians
	Veterinary Technologists and Technicians	Sheet Metal Workers	Medical Records and Health Information Technicians	Slaughterers and Meat Packers	Machine Feeders and Offbearers
	Tax Preparers	Telecommunications Line Installers and Repairers	Mental Health Counselors	Extruding and Drawing Machine Setters, Operators, and Tenders,	Transportation, Storage, and Distribution Managers
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 Engineers	
Photographers	First-Line Supervisors of Mechanics, Installers, and Repairers	Family and General Practitioners	Metal-Refining Furnace Operators and Tenders	Reservation and Transportation Ticket Agents and Travel Clerks	

High Demand Sectors - Sectors with the most projected job openings over the next 5 years, according to JobsEQ, that also have an average annual wage for the entire sector of at least \$35,000.

Top Occupations based on the Forecasted Number of Growth and Replacement job openings over the next 5 years. Occupations not industry specific were removed.

Skill level is based on Bureau of Labor Statistics education attainment levels and approved by all NSFY grant partners.

Low Skill – Occupations requiring a High School Diploma or equivalent or less, Middle Skill – Occupations requiring a High School Diploma plus additional education less than a 4 year degree, High Skill

– Occupations requiring a 4 year degree or more.



# How did this list get created?

- ▶ **Economic Development**
- ▶ **Workforce Investment Boards**
- ▶ **Kentucky Workforce Innovation Boards**
- ▶ **Chamber of Commerce**
- ▶ **Business and Industry Partners**



# How does this align with Program Areas & Programs of Study?

- ▶ Program Areas do not align on a one-to-one basis with Industry Sectors
- ▶ Many CTE Programs of Study lead to multiple Industry Sectors
- ▶ **It is a mistake to equate a Program Area to an Industry Sector**



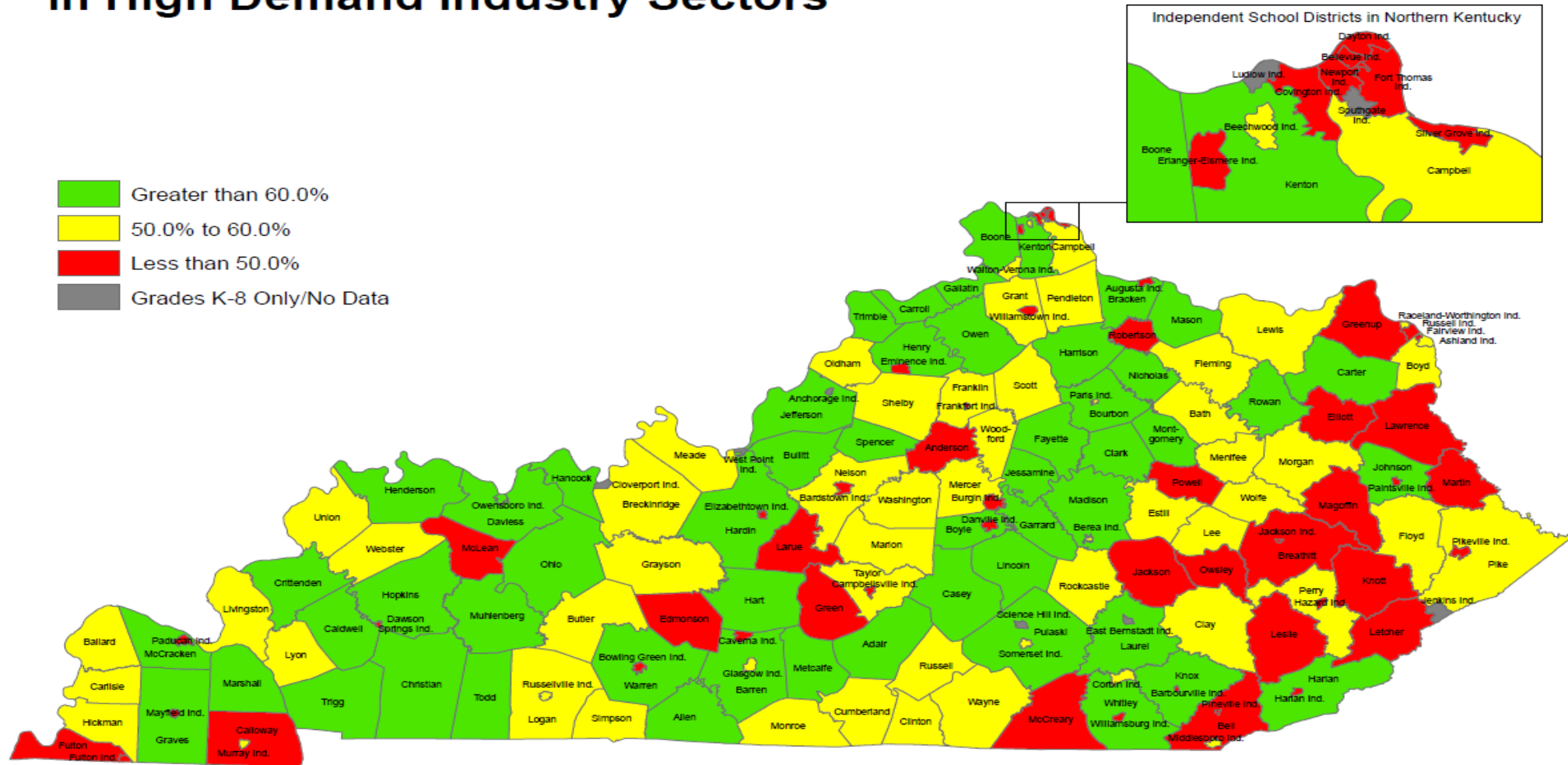
# Alignment between Occupations/Sectors and POS/Program Areas

- ▶ **SOC to CIP**
- ▶ **Program Area Consultants**
- ▶ **CTE Leadership**
- ▶ **NSFY Grant Partners**



# How is Kentucky using and communicating the data?

## District Access to Pathways Leading to Top Occupations in High Demand Industry Sectors



\*District access is determined by that district's pathway offerings in their high schools, locally operated centers, and the corresponding area technology centers. Percentage is based on the number of top occupations (94) that are aligned to the district pathway offerings.



# Additional Uses of LMI

- ▶ **Gap Analysis**
- ▶ **Pathway Phase-Out and Creation**
- ▶ **Industry Certification Selection and Demand**
- ▶ **Regional Career Academies**
- ▶ **Statewide Initiatives/Grant Opportunities**



# What is a Support Sector?

- ▶ A sector that is not in the top 5 or does not meet the criteria for the top 5, but does provide occupations that are critical for the success of the top 5.





# Where to access current LMI for Kentucky?

- ▶ **New Skills For Youth Webpage**
- ▶ **Kentucky Center for Education and Workforce Statistics (KCEWS)**



# Questions

