Career Pathways for Adults
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Section 1: Career Pathways
Introduction to Career Pathways


ABE pathways focus on the educational and employment needs of adults by offering: ‘... a series of connected education and training programs and support services that enable individuals to secure employment within a specific industry or occupational sector, and to advance over time to successively higher levels of education and employment in that sector (Jenkins 2006, p.6).’ (p. 7, para. 3)

This resource contains career pathway maps for three targeted industries in Pennsylvania: Natural Gas, Manufacturing, and Healthcare. We also have included career pathway maps for the Hospitality and Retail industries. These maps are visual representations of potential career pathways within specific industry sectors. Regional information is included in customized documents for each of the following targeted Workforce Investment Areas (WIAs): Lehigh Valley, Luzerne-Schuylkill, Northern Tier, Northwest, Southern Alleghenies, Southwest Corner, Three Rivers, and Westmoreland-Fayette. Where available, the career pathway maps contain the following information: Job Title, Salary, Annual Openings, Job Growth, Required Education and Certifications, and Educational Institutions.

Using Career Pathway Maps

As adult education providers move their programs toward or expand existing career pathways activities, program staff—most often case managers and teachers—can use career pathway maps in various ways to support these changes in their basic skills, and career awareness and development classes. Case managers, for example, can use career pathway maps with students to 1) inform students of the variety of occupations available within an industry and the salary they can expect, 2) help them understand the education and experience needed to enter employment within a potential industry, and 3) gain a perspective on the additional education and experience needed to move up a career ladder once employed within an industry. Although these career pathway maps focus on the entry-level positions, they show potential pathways that students could follow to advance to higher-level positions with an employer. Case managers as well as teachers also could use these career pathway maps to help students set short- and long-term educational and employment goals.
The Center for American Progress recently reported that promising career development programs incorporate the following key features:

- Tailor services to local labor market trends, which enables the programs to provide the most relevant and useful career information
- Tailor services to individual clients’ specific needs—covering a broad range of education and training levels
- Form local partnerships with community-based organizations, colleges, and employers (Choitz, Soares, & Pleasants, 2010, p. 3).

Adult education providers can use career pathway maps as a strategy for incorporating these key features in their programs through career awareness and development, and basic skills development classes. For example, teachers can use the maps to guide students through the process of researching current and projected local labor market trends to be considered, among other factors, when making career decisions. As teachers become better acquainted with students’ interests and educational needs, they routinely consider which lessons are appropriate for students’ levels, selecting and modifying them accordingly. Once teachers can tailor plans and materials further to accommodate students’ full range of education and training levels, they can show how the skills being taught in the classroom align with the occupational skill requirements of the local jobs. Case managers and teachers can explore the resources available through their local PA CareerLink® and colleges or other postsecondary education institutions for additional opportunities. They might also contact local unions or employers to organize a career fair or guest speakers’ panel—or work with their PA CareerLink® operators to involve students in these activities, integrating basic skills development and application into the experience. Community-based organizations might provide support services to help students achieve their short- and long-term goals.

As in any class, instruction related to career awareness and development should start at the lowest level of skill competencies and build on prior knowledge. When creating lesson plans, ensure that all students have the basic foundational competencies required for the workplace. Then, focus on the industry specific topics. Once students have an understanding of the workplace and the targeted industry, instruction can move into occupation specific topics. The goal is to increase awareness of the workplace, broaden awareness to targeted industries, and then the various occupations or opportunities available within an industry. Teachers should help students to make informed decisions and bring awareness to the educational and career opportunities available along various career paths. Finally, career pathways teachers should not be teaching students how to do the jobs being explored. Employers expect employees to come prepared with basic workplace and academic skills necessary to be a good employee. Employers also expect them to have a basic understanding of the industry and the occupations
that have job openings. They will train employees on how to perform the job for which they are hired.

In the career awareness and development class example above, teachers are encouraged to engage students in research on local labor market trends. This research provides a work-focused context in which students can apply and practice communication, math, and critical thinking skills. As such, teachers can review and discuss a career map in class, incorporating opportunities to build reading comprehension, vocabulary development, and/or math skills. Students might then apply those skills in researching the local labor market to identify potential employers and employment requirements. They may be able to identify potential openings, On-the-Job Training (OJT) opportunities, and career ladders/lattices within a company. If students have past experience, teachers could use the career pathway maps to show where their experience might allow them to enter at a higher level with an employer. Based on the information that students collect on possible careers and employment, teachers might plan additional activities to further develop and apply basic skills. For example, teachers might have students read more in-depth information about a selected company with local job openings and then develop several questions to ask at a potential job interview to show knowledge about the company’s work. Finally, teachers should stress to students that, as potential employees, they will be expected to continue to upgrade their skills if they expect to be promoted or apply for a higher-level position along a career path.

According to the *Career Ladder/Lattice General Instructions* found on the CareerOneStop website (U.S. Department of Labor, 2011b),

> Career ladders and lattices consist of a group of related jobs that comprise a career. They often include a pictorial representation of job progression in a career…as well as detailed descriptions of the jobs and the experiences that facilitate movement between jobs….Career ladders display only vertical movement between jobs. In contrast, career lattices contain both vertical and lateral movement between jobs and may reflect more closely the career paths of today’s work environment. (para. 2-3)

As can be seen in this description of career ladders and lattices, career pathway maps are not the only way to think about career development. Teachers also should explore and incorporate these other resources to support the career pathways model. For example, The U.S. Department of Labor, Employment and Training Administration has developed the *Competency Model Clearinghouse* which offers a *Career Ladder/Lattice Tool* that can be helpful in developing industry career paths. Employers, educators, and workforce professionals can use this tool as well as The U.S. Department of Labor’s *Building Blocks for Competency Models Tool*
to create materials and outline “careers and the critical experiences individuals should acquire in order to progress through careers in an industry” (U.S. Department of Labor, 2011b, para. 1).

The following explains the Building Blocks for Competency Models found on the U.S. Department of Labor’s (2011d) CareerOneStop website:

The Building Blocks for Competency Models consist of a set of "building blocks" for competency model development. These "building blocks" are arranged in nine tiers with each tier containing a set of related competencies. The arrangement of the tiers in a pyramidal shape represents the increasing level of specificity and specialization of content. As a user moves up through the various tiers of the model, the competencies become specific to certain industries and/or occupations. The nine tiers are grouped into three categories:

**Occupation-Related Competencies**
- Tier 9 – Management Competencies
- Tier 8 – Occupation-Specific Requirements
- Tier 7 – Occupation-Specific Technical Competencies
- Tier 6 – Occupation-Specific Knowledge Competencies

**Industry-Related Competencies**
- Tier 5 – Industry-Sector Technical Competencies
- Tier 4 – Industry-Wide Technical Competencies

**Foundational Competencies**
- Tier 3 – Workplace Competencies
- Tier 2 – Academic Competencies
- Tier 1 – Personal Effectiveness Competencies

**Foundational Competencies**

At the base of the model, Tiers 1 through 3 represent competencies that provide the foundation for success in school and in the world of work. Foundational competencies are essential to a large number of occupations and industries. Employers have identified a link between foundational competencies and job performance and have also discovered that foundational competencies are a prerequisite for workers to learn industry-specific skills.

**Industry-Related Competencies**

The competencies shown on Tiers 4 and 5 are referred to as Industry Competencies and are specific to an industry or industry sector. Industry-wide technical competencies cut
across industry sub-sectors making it possible to create career lattices where a worker can move easily across industry sub-sectors. Rather than narrowly following a single occupational career ladder, this model supports the development of an agile workforce.

**Occupation-Related Competencies**

The competencies on Tiers 6, 7, 8, and 9 are referred to as Occupational Competencies. Occupational competency models are frequently developed to define performance in a workplace, to design competency-based curriculum, or to articulate the requirements for an occupational credential such as a license or certification. (para. 2-8)

When integrating career awareness into instruction, students should be made aware of the following job information fields. The descriptions, found on the U.S. Department of Labor’s CareerOneStop website, could be used as lesson topics or discussion topics in class. Teachers could use the descriptions to compare and contrast employer expectations, and the differences between industries and/or occupations.

<table>
<thead>
<tr>
<th>Job Title</th>
<th>A designation that indicates an individual's official position in an organization. A job title often indicates an individual's authority and responsibilities as well as the activities and duties performed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Level</td>
<td>Job level indicates position of a particular job within an organization or industry. Some examples of job levels are entry-level, mid-level, management-level, executive-level, or entrepreneur.</td>
</tr>
<tr>
<td>Job Description</td>
<td>A job description is a statement of the work performed in a job, how that work is accomplished, and why the work is performed. Job descriptions can include information regarding job tasks as well as the tools and technology used to perform tasks.</td>
</tr>
<tr>
<td>Perform Supervisory Duties?</td>
<td>Some jobs have a supervisory component that is not explicit in their list of tasks. Other jobs clearly list supervisory duties among tasks. A supervisor is responsible for the day-to-day actions of a group of employees and represents employee issues to higher level management.</td>
</tr>
<tr>
<td>Education</td>
<td>Most organizations have specific education requirements an individual must fulfill in order to be considered qualified for a position. Educational requirements vary by the organization and the type of job but some examples include a high school diploma, some college, post-secondary certificate, and Master's degree.</td>
</tr>
<tr>
<td>Workforce Preparation</td>
<td>Most jobs have specific training requirements an individual must fulfill to be considered proficient at a job. Many different types of training exist; some types are apprenticeship training, on-the-job training, and in-plant training.</td>
</tr>
<tr>
<td>Duration</td>
<td>Training requirements for jobs can vary widely in duration. Some formal training programs can last more than 10 years while others can last less than one month.</td>
</tr>
</tbody>
</table>
**Work Experience**

Work experience is the know-how an individual gains when working in a job. Some employers expect individuals to have prior work experience in a related job to be considered for a position.

**Can work experience and education substitute for each other?**

While some employers may establish both work experience and educational requirements, other employers may accept work experience in lieu of an educational requirement or vice versa.

For example, one job may require both a Master’s degree and 5 years of related work experience while another job may accept either a Master’s degree with no related work experience or a Bachelor’s degree with 5 years of related work experience.

**Licensure**

Licensure is a state's grant of legal authority to practice the profession within a designated scope of practice. Licensure prohibits anyone from practicing a profession who is not licensed, regardless of whether the individual has been certified by a private organization.

**Certification**

Certification is an often voluntary process where individuals meet established standards to demonstrate their competence, experience, knowledge and skill in a particular profession or occupation to employers and the public.

**Salary/Wages**

Salary is the amount of gross income a job provides for one year. If salary information is unavailable you can also record hourly wage estimates. A wage is the amount of income a job provides that is received on an hourly, daily, or weekly basis.

**Employment Outlook**

Employment outlook is an estimation of future growth of an occupation. Employment outlook can be represented by employment increase in number of jobs (employment in 2006 = 3,800 and estimated employment in 2016 = 4,830) or percentage of growth increase (27% percent increase in employment from 2006 to 2016).

**References**

Record resources and/or notes you may need when revising or updating this career ladder/lattice. For example, copy and paste searched job titles and related codes as well as links to Web sites used to complete the job information fields.

(U.S. Department of Labor, 2011c, Appendix A)

### Career Pathways Program Map

The *Career Pathways Program Map* (Hardy, 2011a) illustrates the steps students might follow as they work through the services of a career pathways program. Along the career pathway, they may participate in various services; however, the goal for any career pathways student is transition to postsecondary education, entry-level employment, or additional PA CareerLink® Services.
Career Pathways Program Map

1. **Enroll in Postsecondary Education**
2. **Pursue Entry Level Employment**
3. **Transition into PA CareerLink® Services**

**Decision**

- **Attain Commonwealth Secondary Diploma/GED**
- **Attain National Career Readiness Certificate/WorkKeys®**

**Industry Specific Instruction**
- Employer Expectations, Industry Career Ladders, Occupations Available, Education Needed/Available, Certifications Required, Identify Local Employers

**Decide on Career Pathway**

- **Career Exploration**
  - Career Pathway Planning, Interest Assessments, Resume/Cover Letter Writing, Interviewing Techniques

- **Pre-Employment Instruction**
  - Soft Skills, Work Ethics, Time Management, Basic Computer Skills, Communication Skills, Interpersonal Skills

- **Orientation**
  - Goal Setting, Career Awareness, Barrier Identification, Assessment of Academic Skills

**Enter Career Pathways Program**

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**Basic Academic Skills Instruction**
- Reading
- Writing
- Mathematics
- English as a Second Language

**Case Management Services**

**Possible Partners:**
- Community Action Agencies
- EARN Centers
- TANF
- Health and Human Services Agencies

**Introduction to PA CareerLink® Services**
- CWDS Enrollment
- Local Labor Market Awareness

**Participation in PA CareerLink® WorkKeys® Preparation Classes**

**Possibly working Full-Time or Part-Time**
Section 2: Natural Gas Industry
Overview of the Natural Gas Industry

According to the Natural Gas Supply Association (2011) website,

The process of getting natural gas out of the ground, and to its final destination to be used, is a complicated one. There is a great deal of behind-the-scenes activity that goes into delivering natural gas to your home, even though it takes only the flick of a switch to turn it on....[There are many steps involved] that allow the natural gas industry to get their product out of the ground, and transform it into the natural gas that is used in your homes and in industry.

- The Exploration section outlines how natural gas is found, and how companies decide where to drill wells for it.
- The Extraction section focuses on the drilling process, and how natural gas is brought from its underground reservoirs to the surface.
- The Production section discusses what happens once the well is drilled, including the processing of natural gas once it is brought out from underground.
- The Transport section outlines how the natural gas is transported from the wellhead and processing plant, using the extensive network of pipelines throughout North America.
- The Storage section describes the storage of natural gas, how it is accomplished, and why it is necessary.
- The Distribution section focuses on the delivery of natural gas from the major pipelines to the end users, whoever they may be.
- The Marketing section discusses the role that natural gas marketers play in getting the gas from the wellhead to the end user. (para.1)

Pennsylvania Partnerships

According to the ShaleNet (2011) website, “Marcellus ShaleNET is a coalition between Westmoreland County Community College [WCCC] (lead agency) and Pennsylvania College of Technology [Penn College], West Virginia Northern Community College, Eastern Gateway Community College in Ohio, and Broome Community College in New York” (para. 1).

The mission of the coalition is

To design a comprehensive recruitment, training, placement, and retention program for high priority occupations in the natural gas drilling and production industry. With WCCC serving as the western hub and Penn College serving as the eastern hub, ShaleNET brings Workforce Investment Boards, their One Stops, industry, and training providers
together to build a Marcellus-wide industry-recognized uniform training and certification program aggregating and augmenting existing curricula and adopting best practices as identified. This effort is funded by a three-year, $4.9 million grant from the United States Department of Labor, Employment and Training Administration. (ShaleNet, 2011, para. 2-3)

The Marcellus Shale Education & Training Center (MSETC, 2011) is a collaboration between Pennsylvania College of Technology and Penn State Cooperative extension to provide a wide variety of resources to the community and the oil-and-gas industry. Central operations are located in the Center for Business & Workforce Development on the main campus of Pennsylvania College of Technology in Williamsport. Additional facilities utilized for specific needs include Penn State Cooperative Extension offices, Penn College's North Campus in Wellsboro, and various Penn State campus locations.

**Progression of Education and Training**

In order for the natural gas industry to function, a wide array of people with a variety of educational backgrounds and experience must be available. Many occupations within the natural gas industry require higher levels of education; however, many of the entry-level jobs only require a high school diploma or equivalent. Once hired, employees will receive extensive on-the-job training.

- High School Diploma or Commonwealth Secondary School Diploma/GED
- National Career Readiness Certificate/WorkKeys®
- Fit4 Natural Gas community college training
- Postsecondary Vocational Training
- Nationally Recognized Certificates
- Associate Degree
- Bachelor of Science Degree
- Master of Science Degree

**Certifications**

Employees in this industry are not always required to have the certifications listed below to be hired. However, many employers do require employees to attain them within a specified timeframe. To help potential employees in the area, the Fit4 Natural Gas training, offered through ShaleNET, allows individuals the opportunity to get these certifications and occupational training prior to employment.

- OSHA Rough Terrain Forklift
• PEC/Premier Basic SafeLand USA Orientation
• Defensive Driver Certification from the Centre for Transportation Safety
• Certified Operations Technician for the Oil & Gas Industry from the Gas Technology Institute
• American Heart Association’s First Aid & CPR
• Oilfield Heavy Equipment Safety

Support Services

The following organizations may provide educational opportunities, career counseling, academic support, financial aid, and case management services to support job attainment and career advancement.

• Adult Education Programs
• Career and Technical Centers
• Community Action Agency
• Community Colleges, Higher Education, and Private Schools
• Health and Human Service Agencies
• PA CareerLink®

Career Pathway Maps

Many possible career paths are available in the natural gas industry. This document contains three career pathway maps related to natural gas industry in the Southwest Corner WIA:

• *Southwest Corner WIA Natural Gas Extraction Career Pathway Map* (Hardy, 2011e)
• *Southwest Corner WIA Transportation Career Pathway Map* (Hardy, 2011g)
• *Southwest Corner WIA Welding Career Pathway Map* (Hardy, 2011h)
Natural Gas Extraction
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction
- academic preparation for entry into Fitt Natural Gas program

Fitt Natural Gas program available through:
- Westmoreland County Community College

Postsecondary Education available through:
- Community College of Allegheny County
- Western Area Career and Technology Center

**FIT4 Natural Gas**

**Natural Gas Industry Specific Curriculum**
- Roustabout
- Floor hand
- Production Technician
- CDL
- Welding

**Industry Specific Training Certifications:**
- OSHA Rough Terrain Forklift
- PEC/Premier Basic SafeLand USA Orientation
- Defensive Driver Certification from the Center for Transportation Safety
- Certified Operations Technician for the Oil & Gas Industry from the Technology Institute
- American Heart Association First Aid & CPR
- Oilfield Heavy Equipment Safety

**Career Coaching**

**Employment Preparation**
- Earn a WorkKeys® Career Readiness Certificate

**Employer Networking**

<table>
<thead>
<tr>
<th>Role/Position</th>
<th>Education</th>
<th>Experience</th>
<th>Certifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor Operator (Gas Compressor &amp; Gas Pumping Station Operators)</td>
<td>Entry Level $40,700 (State)</td>
<td>Moderate Term On-the-Job Training Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED</td>
<td></td>
</tr>
<tr>
<td>Rotary Drill Operator</td>
<td>Entry Level $29,650 (State)</td>
<td>Moderate Term On-the-Job Training Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED</td>
<td></td>
</tr>
<tr>
<td>Derrick Operator</td>
<td>Entry Level $27,010 (State)</td>
<td>Moderate Term On-the-Job Training Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED</td>
<td></td>
</tr>
<tr>
<td>Service Unit Operator</td>
<td>Entry Level $23,720 (State)</td>
<td>Moderate Term On-the-Job Training Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED</td>
<td></td>
</tr>
<tr>
<td>Helpers - Extraction Workers (Floor Hand, Derrick Hand)</td>
<td>Entry Level $22,670 (State)</td>
<td>Moderate Term On-the-Job Training Some require High School Diploma/ Commonwealth Secondary School Diploma/ GED Clean Driving Record</td>
<td></td>
</tr>
<tr>
<td>Pump Operator (Pumper/Well Tender)</td>
<td>Entry Level $22,400 (State)</td>
<td>Moderate Term On-the-Job Training Some require High School Diploma/ Commonwealth Secondary School Diploma/ GED Clean Driving Record</td>
<td></td>
</tr>
<tr>
<td>Roustabout</td>
<td>Entry Level $22,380 (State)</td>
<td>Moderate Term On-the-Job Training Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED Clean Driving Record</td>
<td></td>
</tr>
</tbody>
</table>

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.

Sources of Information:

Career Pathways for Adults

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Transportation Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may vary depending on the individual and the local area job market.

**Career Pathways programs provide:**
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

**CDL training available through:**
- PIA Truck Driving School
- Pittsburgh Diesel Institute
- Swanson Driving School
- Western Area Career & Technology Center

**Transportation Career Pathway**

**Truck Drivers, Heavy or Tractor-Trailer**
- Entry Level: $25,330
- Annual Openings: 36
- Increase: 3.5%
- Certification: Class A CDL, May require hazmat & tanker endorsements
  *WorkKeys® Gold Certificate

**Industrial Truck and Tractor Operators**
- Entry Level: $25,170
- Annual Openings: 16
- Decrease: 9.4%
- Certification: Class B CDL, May require hazmat & tanker endorsements
  *WorkKeys® Silver Certificate

**Refuse & Recyclable Material Collectors**
- Entry Level: $24,240
- Annual Openings: 10
- Increase: 8%
- Certification: Skid Steer Safety Certification

**Bus Drivers, School**
- Entry Level: $22,890
- Annual Openings: 17
- Increase: .5%
- Certification: Class B CDL

**Laborers and Freight, Stock, and Material Movers, Hand**
- Entry Level: $18,140
- Annual Openings: 10
- Decrease: -.8%
- Certification: Skid Steer Safety Certification

**Driver/Sales Worker**
- Entry Level: $17,050
- Annual Openings: 10
- Decrease: -3.7%
- Certification: Class B CDL

**Truck Drivers, Light or Delivery Services**
- Entry Level: $16,760
- Annual Openings: 18
- Decrease: -99%
- Certification: Class B CDL, May require hazmat & tanker endorsements
  *WorkKeys® Silver Certificate

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.

Sources of Information:
Welding
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

Postsecondary Education available through
- Beaver County Career & Technology Center
- DeAn Institute of Technology
- Mon Valley Career & Technology Center
- Western Area Career & Technology Center

Sources of Information:

Welding Career Pathway

**Welders, Cutters, Welder Fitters**
Entry Level $24,840
Annual Openings 14 Decrease -4.55%

**Structural Metal Fabricator**
Entry Level $28,120
Annual Openings 3 Decrease -0.07%

**Sheet Metal Workers**
Entry Level $56,060
Annual Openings 7 Increase 4.35%

**Tool & Die Makers**
Entry Level $34,580
Annual Openings 2 Decrease -7.14%

**Long Term On-the-Job Training**
Most require Postsecondary Education/Training, Related On-the-Job Experience, or an Associate’s Degree

**Certifications:**
- Certified Welder (CW) Certificate
- WorkKeys® Gold Certificate

** Moderate Term On-the-Job Training**
Usually require High School Diploma/Commonwealth Secondary School Diploma/GED

**Certifications:**

**May require Postsecondary Education/Training,**
Usually require High School Diploma/Commonwealth Secondary School Diploma/GED

**Certifications:**

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.
Section 3: Manufacturing Industry
Overview of the Manufacturing Industry

According to the U.S. Department of Labor’s (2010c) Industries at a Glance,

‘The manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. Establishments in the Manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment. However, establishments that transform materials or substances into new products by hand or in the worker's home and those engaged in selling to the general public products made on the same premises from which they are sold, such as bakeries, candy stores, and custom tailors, may also be included in this sector. Manufacturing establishments may process materials or may contract with other establishments to process their materials for them. Both types of establishments are included in manufacturing (North American Industry Classification System).’ (para. 1-2)

Pennsylvania Partnerships

- The Pennsylvania Center for Advanced Manufacturing Careers (PCAMC)
- Pennsylvania Center for Green Careers
- Industrial Resource Centers
- Regional Career and Education Partnerships
- Regional Manufacturing Industry Partnerships

Progression of Education and Training

There are many occupations within the manufacturing industry that require higher levels of education; however, there are many that only require a high school diploma or equivalent. Most occupations in the manufacturing industry require employees to participate in continuous on-the-job training.

- High School Diploma or Commonwealth Secondary School Diploma/GED
- High school career center program articulated with community college industrial training
- National Career Readiness Certificate/WorkKeys®
- Postsecondary Vocational Training
- Nationally Recognized Certificates
- Associate Degree
- Bachelor of Science Degree
- Master of Science Degree
Certifications

The National Association of Manufacturers (NAM, 2011) endorses the Manufacturing Skills Certification System which validates the skills and competencies of incoming workers for meeting the demands of the manufacturing business.

These are nationally-portable, industry recognized certifications endorsed:

- **For Work Ready Candidates**
  - National Career Readiness Certificate (NCRC) issued by ACT (Bronze, Silver, Gold, Platinum)
  - NCRC Plus (Skill Categories include: Work Discipline, Teamwork, Managerial Potential, Customer Service Orientation)

- **For Certified Production Technicians**
  - The Manufacturing Skill Standards Council’s (MSSC) Certified Production Technician (CPT) - (Certied assessments in: Safety, Quality Practices & Measurement, Manufacturing Processes & Production, and Maintenance Awareness)

- **For Certified Machinists and Metalformers**
  - National Institute of Metalworking Skills (NIMS) - Certifications range from entry level to master level, stackable credentials in the following areas: Machining, Metalforming, Stamping, Press Brake, Slide Forming, Screw Machining, Die Making, Machine Building, & Machine Maintenance, Service, and Repair

- **For Certified Welders**
  - American Welding Society (AWS) Certified Welder Certifications

- **For Certified Technologists and Engineers**
  - Society of Manufacturing Engineers (SME) - The Certified Manufacturing Technologist (CMfgT) and The Certified Manufacturing Engineer (CMfgE)

Support Services

The following organizations may provide educational opportunities, career counseling, academic support, financial aid, and case management services to support job attainment and career advancement.

- 2+2+2 Leadership Grant Network
- Adult Education programs
- Apprenticeship Programs
- Career and Technical Centers
- Community Action Agency
• Community Colleges, Higher Education, and Private Schools
• Health and Human Service Agencies
• PA CareerLink®

Career Pathways Maps

There are many possible career paths available with the manufacturing industry. This document contains the following examples related to manufacturing in the Southwest Corner WIA:

• Southwest Corner WIA Production Career Pathway Map (Hardy, 2011f)
• Southwest Corner WIA Maintenance Career Pathway Map (Hardy, 2011c)
• Southwest Corner WIA Metal and Plastic Career Pathway Map (Hardy, 2011d)
• Southwest Corner WIA Welding Career Pathway Map (Hardy, 2011h)
• Southwest Corner WIA Transportation Career Pathway Map (Hardy, 2011g)
Manufacturing - Production
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Test preparation
- academic skills specific to the industry
- technology exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/care management support
- provide employability/soft skills instruction

Postsecondary Education available through:
- Beaver County Career & Technology Center

Manufacturing - Production Career Pathway

**Inspectors, Testers, Sorters, Samplers and Weighers**
Entry Level $29,770
Annual Openings 9 Decrease -14.29%

**Team Assemblers**
Entry Level $19,890
Annual Openings 23 Decrease -13.27%

**Production, Planning and Expediting Clerks**
Entry Level $28,760
Annual Openings 9 Decrease -3.13%

**Order Clerks**
Entry Level $22,770
Annual Openings 4 Decrease -4.7%

**Shipping, Receiving, and Traffic Clerks**
Entry Level $20,290
Annual Openings 13 Decrease -3.7%

**Laborers and Freight, Stock, and Material Movers, Hand**
Entry Level $18,140
Annual Openings 97 Decrease -8%

**Helpers - Production Workers**
Entry Level $18,200
Annual Openings 27 Decrease -4%

**Stock Clerks - Stockroom, Warehouse, Storage Yard**
Entry Level $17,290
Annual Openings 48 Decrease -1.4%

**Moderate Term On-the-Job Training**
 Usually require High School Diploma/Commonwealth Secondary School Diploma/GED

**Certifications:**
- WorkKeys® Silver Certificate

**Short Term On-the-Job Training**
 Usually require High School Diploma/Commonwealth Secondary School Diploma/GED

**Certifications:**
- WorkKeys® Silver Certificate

**Short Term On-the-Job Training**
 Usually require High School Diploma/Commonwealth Secondary School Diploma/GED

**Certifications:**
- O*NET Online

**Certifications:**
- Sidestream Safety Certification

Source of Information:

Career Pathways for Adults
27
Manufacturing - Maintenance Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

Postsecondary Education available through:
- Community College of Beaver County
- Penn Commercial Business & Technical School
- Waynesburg University
- Western Area Career & Technology Center

Sources of Information:

Manufacturing Maintenance Career Pathway

Supervisors - Mechanics, Installers, Repairers
Entry Level $42,990
Annual Openings 13 Increase 0%

Industrial Machinery Mechanics
Entry Level $35,520
Annual Openings 16 Increase 9.68%

Maintenance Workers, Machinery
Entry Level $38,680
Annual Openings 3 Increase 0%

Maintenance and Repair Workers, General
Entry Level $21,250
Annual Openings 5 Decrease -9.6%

Helpers - Installation, Maintenance, Repair Workers
Entry Level $19,620
Annual Openings 4 Increase ,5%

Work Experience
Most require Related Work Experience, or an Associate’s Degree

Certifications:
*WorkKeys® Silver Certificate

Long Term On-the-Job Training
Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED

Moderate Term On-the-Job Training
Some require Postsecondary Education/ Training, Related On-the-Job Experience, or an Associate’s Degree
Certifications:
*WorkKeys® Silver Certificate

Moderate Term On-the-Job Training
Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED
Certifications:
*WorkKeys® Silver Certificate

Usualy require High School Diploma/ Commonwealth Secondary School Diploma/ GED
Certifications:
*WorkKeys® Silver Certificate

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.
Manufacturing - Metal and Plastic
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

Postsecondary Education available through:
- Beaver County Career & Technology Center
- Mon Valley Career & Technology Center
- Western Area Career & Technology Center

| Manufacturing Metal and Plastic Career Pathway |
|-----------------|-----------------|
| Numerical Tool & Process Control Programmers |
| Entry Level $32,670 |
| Annual Openings 0 Decrease -33.33% |
| EDUCATION |
| Work Experience |
| Most require Postsecondary Education/Training, Related On-the-Job Experience, or an Associate's Degree |
| Certifications: |
| *WorkKeys® Silver Certificate |
| Machinists |
| Entry Level $26,570 |
| Annual Openings 14 Decrease -5.68% |
| EDUCATION |
| Long Term On-the-Job Training |
| Some require Postsecondary Education/Training, Related On-the-Job Experience, or an Associate's Degree |
| Certifications: |
| *WorkKeys® Silver Certificate |
| Multiple Machine Tool Operators, Metal & Plastic |
| Entry Level $26,260 |
| Annual Openings 4 Increase 0% |
| EDUCATION |
| Moderate Term On-the-Job Training |
| Usually require High School Diploma/Commonwealth Secondary School Diploma/GE D |
| Certifications: |
| *WorkKeys® Silver Certificate |
| Extruding & Drawing Machine Operators, Metal and Plastic |
| Entry Level $26,250 |
| Annual Openings 9 Decrease -18.18% |
| EDUCATION |
| Moderate Term On-the-Job Training |
| Usually require High School Diploma/Commonwealth Secondary School Diploma/GE D |
| Certifications: |
| *WorkKeys® Silver Certificate |
| Cutting, Punching & press Machine Operators, Metal & Plastic |
| Entry Level $25,840 |
| Annual Openings 11 Decrease -20.45% |
| EDUCATION |
| Moderate Term On-the-Job Training |
| Usually require High School Diploma/Commonwealth Secondary School Diploma/GE D |
| Certifications: |
| *WorkKeys® Silver Certificate |
| Computer-Controlled Machine Tool Operators, Metal & Plastic |
| Entry Level $19,810 |
| Annual Openings 3 Increase 0% |
| EDUCATION |
| Moderate Term On-the-Job Training |
| Usually require High School Diploma/Commonwealth Secondary School Diploma/GE D |
| Certifications: |
| *WorkKeys® Silver Certificate |
| Molding & Casting Machine Operators, Metal and Plastic |
| Entry Level $19,680 |
| Annual Openings 2 Decrease -28.57% |
| EDUCATION |
| Moderate Term On-the-Job Training |
| Usually require High School Diploma/Commonwealth Secondary School Diploma/GE D |
| Certifications: |
| *WorkKeys® Silver Certificate |

Sources of Information:

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.
Welding
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- Workplace skills instruction
- GED® Tests preparation
- Academic skills specific to the industry
- Entrance exam preparation
- Postsecondary transition preparation
- English language skills instruction
- Goal setting/case management support
- Provide employability/soft skills instruction

Postsecondary Education available through:
- Beaver County Career & Technology Center
- Dean Institute of Technology
- Mon Valley Career & Technology Center
- Western Area Career & Technology Center

Sources of Information:

Welding Career Pathway

**Tool & Die Makers**
Entry Level $34,580
Annual Openings 2 Decrease -7.14%

**Sheet Metal Workers**
Enter Level $56,060
Annual Openings 7 Increase 4.35%

**Structural Metal Fabricator**
Enter Level $28,120
Annual Openings 3 Decrease -0.7%

**Welders, Cutters, Welder Fitters**
Enter Level $24,840
Annual Openings 14 Decrease -4.55%

**Certifications**:
- Long Term On-the-Job Training
  - Most require Postsecondary Education/Training, Related On-the-Job Experience, or an Associate's Degree
- **Certifications**:
  - Certified Welder (CW) Certificate
  - WorkKeys® Gold Certificate

**Moderate Term On-the-Job Training**
Usually require High School Diploma/Commonwealth Secondary School Diploma/GED
- **Certifications**:

**Educations**

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.*
Transportation
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may vary depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

CDL training available through:
- PIA Truck Driving School
- Pittsburgh Diesel Institute
- Swanson Driving School
- Western Area Career & Technology Center

Sources of Information:

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.
Section 4: Healthcare Industry
Overview of the Healthcare Industry

Over half a million different types of organizations make up the healthcare industry. About three-fourths of the health care organizations are physician, dentists, and other health practitioners’ offices. Hospitals employ 35% of all healthcare workers. “The healthcare industry diagnoses, treats, and administers care around the clock, responding to the needs of millions of people—from newborns to the terminally ill” (U.S. Department of Labor, 2010b, para. 2).

The Allied Health section of the healthcare industry refers to the occupations that provide medical care and support but are not physicians, nurses, or dentists. Occupations in the Allied Health field provide diagnostic, technical, therapeutic, and direct patient care and support. Health Information Management (HIM) is an example of this section of healthcare. HIM includes occupations that record, compile, update, and store medical records. National, state, and company rules regulate how these data are managed and stored. Technology innovations are continuously changing how health information is recorded and maintained.

Devices such as hand-held computers are used [to] record a patient’s medical history. Information on vital signs and orders for tests are transferred electronically to a main database; this process eliminates the need for paper and reduces recordkeeping errors. Adoption of electronic health records is, however, relatively low presently. (U.S. Department of Labor, 2010b, para. 14)

Nursing is defined as “the protection, promotion, and optimization of health and abilities, prevention of illness and injury, alleviation of suffering through the diagnosis and treatment of human response, and advocacy in the care of individuals, families, communities, and populations” (American Nurses Association, 2011). According to the Pennsylvania Center for Health Careers (2007),

Direct-care occupations form a critical segment of Pennsylvania’s health and long-term supportive services delivery system. Direct-care workers go by many designations and work in a variety of service settings. They include nursing assistants, home health aides, personal care aides and attendants, home care workers, and direct support professionals. Nursing assistants and home health aides provide essentially the same services in Medicare- and Medicaid-certified nursing homes and home health agencies. Under the direction of a licensed nurse, they assist consumers with activities of daily living (ADLs) such as eating, dressing, bathing, and toileting; they also perform clinical tasks such as range-of-motion exercises and blood pressure readings. Home health aides may also perform light housekeeping tasks, such as preparing food or changing linens. (p. 16)

This work may take place in a consumer’s home or in a long-term living facility. “These occupational designations [of nurses and direct care workers] vary according to the levels of training, the setting in which direct-care workers are employed, as well as the community of consumers they serve” (Pennsylvania Center for Health Careers, 2007, para. 1).
Pennsylvania Partnerships

- PA Center for Health Careers
- Regional Healthcare Industry Partnerships
- Regional Career and Education Partnerships
- Pennsylvania Area Health Education Center

Progression of Education and Training

The Healthcare section of the U.S. Department of Labor’s (2010b) Career Guide to Industries states that

A wide variety of people with various educational backgrounds are necessary for the healthcare industry to function....[Some jobs] require many years of training beyond graduate school. However, most of the occupations in the healthcare industry require less than four years of college. (Training and Advancement section, para.1)

- High School Diploma or Commonwealth Secondary School Diploma/GED
- National Career Readiness Certificate/WorkKeys®
- Postsecondary Vocational Training
- Nationally Recognized Certificates
- Associate Degree
- Bachelor of Science Degree
- Master of Science Degree

Certifications

Certifications and licensure vary by the level of care that is provided, employer, and type of healthcare setting. Certifications and/or licensure are often specific to Pennsylvania; however, it is often transferrable to and from other states. Below is a list of relevant certifications for each occupation.

- Phlebotomist
  - Phlebotomy Technician Certification (PBT)
- Radiologic Technician
  - Primary radiography certification
- Radiologic Technologist
  - Specialized radiological specialty area certification (i.e., mammography, computer tomography (CT), etc.)
- Cardiovascular Technician
- Certified Cardiographic Technician (CCT)
- Certified Rhythm Analysis Technician (CRAT)

- Cardiovascular Technologist
  - Registered Congenital Cardiac Sonographer (RCCS)
  - Registered Cardiac Electrophysiology Specialist (RCES)
  - Registered Cardiovascular Invasive Specialist (RCIS)
  - Registered Cardiac Sonographer (RCS)
  - Registered Phlebology Sonographer (RPhS)
  - Registered Vascular Specialist (RVS)

- Medical/Clinical Laboratory Technician
  - Medical Laboratory Technician Certification (MLT)

- Medical/Clinical Laboratory Technologist
  - Medical Technologist Certification (MT)

- Medical Records and Health Information Technicians
  - Registered Health Information Technician (RHIT)
  - Certified Coding Association (CCA)
  - Certified Coding Specialist (CCS)
  - Certified Coding Specialist – Physician-based (CCS-P)

- Medical Transcriptionist
  - Registered Medical Transcriptionists (RMT)
  - Certified Medical Transcriptionist (CMT)

- HIM Manager
  - National Registered Health Information Administrator (RHIA) certification

Support Services

The following organizations may provide educational opportunities, career counseling, academic support, financial aid, and case management services to support job attainment and career advancement.

- Adult Education Programs
- Career and Technical Centers
- Community Action Agency
- Community Colleges, Higher Education, and Private Schools
- Health and Human Service Agencies
- Healthcare Employers
- Healthcare Unions and Training Funds
- PA CareerLink®
Career Pathway Maps

Many possible career paths are available in the healthcare industry. This document contains three career pathway maps related to healthcare in the Southwest Corner WIA:

- *Southwest Corner WIA Healthcare—Allied Health—Diagnostic Career Pathway Map* (Hardy & Long, 2011a)
- *Southwest Corner WIA Healthcare—Nursing/Direct Care Career Pathway Map* (Hardy & Long, 2011c)
- *Southwest Corner WIA Healthcare—Health Information Management Career Pathway Map* (Hardy & Long, 2011b)
Healthcare - Allied Health - Diagnostic
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area (WIA). The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

Postsecondary Education available through:
- Community College of Beaver County
- Western Area Career & Technology Center

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Radiologic Technologist
Entry Level $39,830
Annual Openings 5 Increase 14%

Radiologic Technician
Entry Level $39,830
Annual Openings 5 Increase 14%

Cardiovascular Technologist
Entry Level $30,390
Annual Openings 2 Increase 14%

Cardiovascular Technician
Entry Level $30,390
Annual Openings 2 Increase 14%

Medical/Clinical Laboratory Technologist
Entry Level $45,110
Annual Openings 1 Increase 0%

Medical/Clinical Laboratory Technician
Entry Level $27,860
Annual Openings 3 Increase 7%

Phlebotomist
Entry Level $24,560
Annual Openings 2 Increase 9%

Typically requires an Associate’s Degree

Certifications:
- WorkKeys® Silver Certificate
- Specialized radiological specialty area certification (i.e. mammography, computerized tomography (CT), etc.)

Postsecondary Education/Training or Associate’s Degree

Certifications:
- Primary Radiography Certification

Associate’s Degree

Certifications:
- Certified Cardiographic Technician (CCT)
- Specialty Area Certifications available (i.e. RCCS, RCS, RCS, RCS, RPHS, RVS)

**Certified Cardiographic Technician (CCT)
**Certified Rhythm Analysis Technician (CRAT)

Typically requires an Associate’s Degree; some EKG technicians may be trained on the job

Certifications:
- Certified Cardiographic Technician (CCT)

Typically requires a Bachelor’s Degree

Certifications:
- WorkKeys® Gold Certificate
- Medical Technologist Certification (MT)

Postsecondary Education/Training or Associate’s Degree

Certifications:
- WorkKeys® Gold Certificate
- Medical Laboratory Technician Certification (MT)


Certificates:
- Phlebotomy Technician Certification (PTCT)

Sources of Information:

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.
**Certifications are available, but may not be required by employers.

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Career Pathways for Adults
38
Healthcare - Nursing/Direct Care
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area (WIA). The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may vary depending on the individual and the local area labor market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language instruction
- goal setting/care management support
- provide employability/soft skills instruction

Postsecondary Education available through:
- Beaver County Career & Technology Center
- Community College of Beaver County
- Mon Valley Career & Technology Center
- Western Area Career & Technology Center

Nursing/Direct Care Career Pathway

Advanced Job Opportunities
Nurse Educator, Nurse Practitioners, Nurse Instructor and Teacher (Post-secondary level), Supervisor of Nurses, Healthcare Administrator

Bachelor Degree, Master's Degree, Doctor of Nursing Practice, Doctor of Philosophy and/or additional training
Certifications: vary by occupation, typically require advanced degrees, certifications, and/or licensure

Registered Nurse (RN or BSN)
Entry Level $43,080
Annual Openings 105 Increase 18.27%

Requires Postsecondary Education/Training
Typically requires no drug convictions/criminal record
Certifications:
*WorkKeys® Gold Certificate Registered Nurse Licensure

Licensed Practical Nurse (LPN)
Entry Level $30,710
Annual Openings 40 Increase 17.98%

Requires Postsecondary Education/Training
Typically requires no drug convictions/criminal record
Certifications:
*WorkKeys® Silver Certificate Licensed Practical Nurse Licensure

Nursing Aides, Orderlies and Attendants
Entry Level $20,660
Annual Openings 58 Increase 18.4%

Requires Postsecondary Education/Training
Typically requires no drug convictions/criminal record
Certifications:
Certified Nursing Assistant (CNA)

Home Health Aides
Entry Level $17,720
Annual Openings 72 Increase 23.11%

Usually requires High School Diploma/ Commonwealth Secondary School Diploma/ GED, Typically requires no drug convictions/criminal record
Certifications:
*WorkKeys® Bronze Certificate **Certified Home Health Aide

Personal and Home Care Aides
Entry Level $17,410
Annual Openings 49 Increase 16.78%

Short Term On-the-Job Training

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.
**Certification are available, but may not be required by employers.

Sources of Information:
Healthcare - Health Information Management
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area (WIA). The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

**Career Pathways programs provide:**
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

**Postsecondary Education available through:**
- Community College of Beaver County
- Penn Commercial Business & Technical School
- Western Area Career & Technology Center

**Health Information Management Career Pathway**

**Medical and Health Services Manager**
- Entry Level: $54,260
- Annual Openings: 12
- Increase: 1.2%
- Postsecondary Education/Training, Associate's Degree and Experience, or Bachelor's Degree
- Certifications:
  - **Microsoft Office Specialist Certification, Registered Health Information Administrator (RHIA)**

**Medical Transcriptionists**
- Entry Level: $21,940
- Annual Openings: 3
- Increase: 0%
- Typically requires Postsecondary Education/Training
- Certifications:
  - **Registered Medical Transcriptionist (RMT), Certified Medical Transcriptionist (CMT)**

**Medical Records and Health Information Technicians**
- Entry Level: $23,360
- Annual Openings: 4
- Increase: 10%
- Typically requires Associate's Degree
- Certifications:
  - **WorkKeys® Silver Certificate, Registered Health Information Technician (RHIT), Certified Coding Association (CCA), Certified Coding Specialist (CCS), Certified Coding Specialist Physician-based (CCS-P)**

**First-Line Supervisor/Managers of Office and Administrative Support Workers**
- Entry Level: $29,860
- Annual Openings: 22
- Decrease: -6%
- Postsecondary Education/Training, Associate's Degree and Experience, or Bachelor's Degree
- Certifications:
  - **WorkKeys® Silver Certificate, Microsoft Office Specialist Certification**

**Medical Secretaries**
- Entry Level: $20,420
- Annual Openings: 12
- Increase: .7%
- May require Postsecondary Education/Training
- Certifications:
  - **WorkKeys® Bronze Certificate, Microsoft Office Specialist Certification**

**Receptionist/Office Clerks**
- Entry Level: $17,340
- Annual Openings: 35
- Increase: .7%
- May require a High School Diploma
- Certifications:
  - **WorkKeys® Silver Certificate**

**Sources of Information:**
Section 5: Hospitality Industry
Overview of the Hospitality Industry

Occupations in ancillary service industries increase in demand as other industries increase. Many occupations within different industries increase in order to accommodate the growth of another industry. Hospitality and retail are two that are most likely to be affected by the increase in population to an area.

Food services and drinking places may be the world’s most widespread and familiar industry. These establishments include all types of restaurants, from fast-food eateries to formal dining establishments. They also include cafeterias, caterers, bars, and food service contractors that operate the food services at places such as schools, sports arenas, and hospitals (U.S. Department of Labor, 2010a, para. 2).

Workers in this industry perform a variety of tasks. They prepare food items from a menu or according to a customer’s order, keep food preparation and service areas clean, accept payment from customers, and provide the establishment managerial or office services, such as bookkeeping, ordering, and advertising. Cooks, waiters and waitresses, and combined food preparation and serving workers accounted for 3 out of 5 food services jobs...(U.S. Department of Labor, 2010a, Occupations in the Industry section, para. 1).

Food service managers hire, train, supervise, and discharge workers in food services and drinking places establishments. They also purchase supplies, deal with vendors, keep records, and help whenever an extra hand is needed. Executive chefs oversee the kitchen, select the menu, train cooks and food preparation workers, and direct the preparation of food. In fine-dining establishments, maitre d’s may serve as hosts or hostesses while overseeing the dining room. Larger establishments may employ general managers, as well as a number of assistant managers. Many managers and executive chefs are part owners of the establishments they manage (U.S. Department of Labor, 2010a, Occupations in the Industry section, para. 6).

Pennsylvania Partnerships

Regional Career and Education Partnerships

Progression of Education and Training

In order for the hospitality industry to function, a wide array of people with a variety of educational backgrounds and experience must be available. Many occupations within this industry require higher education degrees; however, most of the occupations only require a high school diploma or equivalent. Most education and training for these occupations are provided by the employer as needed.
• High School Diploma or Commonwealth Secondary School Diploma/GED
• National Career Readiness Certificate/WorkKeys®
• Postsecondary Vocational Training
• Nationally Recognized Certificates
• Associate Degree
• Bachelor of Science Degree

**Certifications**

Employees in this industry are not always required to have the ServSafe certification to be hired; however, employees handling food will have to attain their certification within 90 days of being hired. The ServSafe certification requires renewal every five years.

**Support Services**

The following organizations may provide educational opportunities, career counseling, academic support, financial aid, and case management services to support job attainment and career advancement.

• Adult Education Programs
• Career and Technical Centers
• Community Action Agency
• Community Colleges, Higher Education, and Private Schools
• Health and Human Services
• PA CareerLink®

**Career Pathway Maps**

The *Southwest Corner WIA Hospitality—Food & Beverage Career Pathway Map* (Hardy, 2011b) provides a broad overview of the hospitality industry’s food and beverage sector within the Southwest Corner WIA. Actual jobs and organization will vary by employer.
Hospitality - Food & Beverage  
Southwest Corner WIA

Information contained in this career pathways map is specific to this Workforce Investment Area (WIA). Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction

Postsecondary Education available through:
- Community College of Beaver County
- Mon Valley Career & Technology Center
- Western Area Career & Technology Center

Meeting and Convention Planners  
Entry Level $29,530 (State)  
Most require Bachelor’s Degree, some do not

Food Service Manager  
Entry Level $24,590  
Most require Postsecondary Education/Training, Related On-the-Job Experience OR Associate’s Degree

First-Line Supervisor/Managers of Food Preparation and Serving Workers  
Entry Level $24,220  
Moderate Term On-the-Job Training  
Usually require High School Diploma/ Commonwealth Secondary School Diploma/ GED  
Certifications: *WorkKeys® Gold Certificate

Food Preparation Workers  
Entry Level $18,990  
Short Term On-the-Job Training  
May require High School Diploma/ Commonwealth Secondary School Diploma/ GED  
Certifications: *WorkKeys® Silver Certificate

Bartender/Bar Manager  
Entry Level $17,190  
Short Term On-the-Job Training  
May require High School Diploma/ Commonwealth Secondary School Diploma/ GED

Waiter/Waitresses  
Entry Level $16,710  
Short Term On-the-Job Training  
May require High School Diploma/ Commonwealth Secondary School Diploma/ GED  
Certifications: *WorkKeys® Silver Certificate

Hosts and Hostesses/ Hospitality Coordinator  
Entry Level $17,940  
Short Term On-the-Job Training  
May require High School Diploma/ Commonwealth Secondary School Diploma/ GED  
Certifications: *WorkKeys® Silver Certificate

Cashier  
Entry Level $17,260  
Short Term On-the-Job Training  
May require High School Diploma/ Commonwealth Secondary School Diploma/ GED  
Certifications: *WorkKeys® Silver Certificate

Sources of Information:

*WorkKeys® Career Readiness Certificate listed is determined by highest score needed for identified occupation.
Section 6: Retail Industry
Overview of the Retail Industry

The retail industry sells goods or merchandise to individuals, companies, and organizations. It is one of the largest sectors of the economy. While most retail sales and jobs take place in a store, Internet retail sales and jobs are growing. Retail businesses vary in size, range of products, and ownership (chain or independent).

Retail jobs include cashiers and sales associates. Other retail job areas include receiving, loss prevention, management, marketing, and customer service. Entry-level positions often may be hourly, while management positions often are based on salary. In general, assistant managers and managerial trainees are promoted from within. However, higher level managerial and corporate positions often require postsecondary credentials.

Pennsylvania Partnerships

- Regional Logistics and Transportation Industry Partnerships (related but not focused on retail career pathways)
- Regional Career and Education Partnerships

Progression of Education and Training

Most entry-level retail positions offer on-the-job training. Some employers may require a high school diploma or Commonwealth Secondary School Diploma/GED. Co-workers may provide training. Larger retail outlets may use trainers and more formal training programs for staff. Although management positions often require postsecondary education degrees, some companies will promote highly qualified staff to administrative or supervisory positions without requiring further formal education.

- High School Diploma or Commonwealth Secondary School Diploma/GED
- National Career Readiness Certificate/WorkKeys®
- Postsecondary Vocational Training
- Nationally Recognized Certificates
- Associate Degree
- Bachelor of Science Degree
Certifications

Most entry-level positions do not require certifications; however, they may be helpful in securing a job. Higher-level management positions and corporate positions often require postsecondary degrees. However, the level and type of degree depends on the occupation and focus area (ex. accounting, information technology, marketing). National certifications include:

- National Professional Certification in Customer Service issued by the National Retail Federation (NRF) Foundation
- National Professional Certification in Sales issued by the NRF Foundation
- National Professional Certification in Retail Management issued by the NRF Foundation

Support Services

The following organizations may provide educational opportunities, career counseling, academic support, financial aid, and case management services to support job attainment and career advancement.

- Adult Education Programs
- Career and Technical Centers
- Community Action Agency
- Community Colleges, Higher Education, and Private Schools
- Health and Human Service Agencies
- PA CareerLink®

Career Pathway Maps

The Retail Pennsylvania Career Pathway Map (Hardy & Long, 2011d) provides a general overview of retail occupations; however, actual jobs and organization will be specific to the retail business. Related career areas include warehousing, supply chain management, and transportation.
Retail
Pennsylvania

Information contained in this career pathways map provides a general overview of career pathways available in retail. Actual career pathways may look different depending on the individual and the local area job market.

Career Pathways programs provide:
- workplace skills instruction
- GED® Tests preparation
- academic skills specific to the industry
- entrance exam preparation
- postsecondary transition preparation
- English language skills instruction
- goal setting/case management support
- provide employability/soft skills instruction
References


