

ENGINEERING & INDUSTRIAL TECHNOLOGY PATHWAY

Do you enjoy working with your hands, building and fixing things? Would you describe yourself as practical and logical? Are you interested in studying science, drafting, robotics, woodworking, or math? In your free time, do you like to use technology, work on cars or mechanical things? If you answered “yes” to some of these questions, then a career in Engineering and Industrial Technology might be right for you.

Career Cluster Areas

Manufacturing
Transportation, Distribution & Logistics
Architecture & Construction
Engineering

For more information on these Career Clusters, visit <https://www.pacareerzone.org/clusters>

Northwest PA

(Clarion, Crawford, Erie, Forest, Venango and Warren Counties)

Select High Priority Jobs, Educational Attainment & Average Entry-Level Wages (2024)

Related Work Experience / Post-Secondary / Associate's Degree

Supervisors – Construction & Extraction Workers \$53,920
Automotive Service Technicians & Mechanics \$31,390
Tool & Die Makers \$43,240
Heavy & Tractor-Trailer Truck Drivers \$40,550
Heat, A/C & Refrig. Mechanics & Installers \$42,610

Short or Moderate-Term OJT

Construction Laborers \$35,140
Roofers \$38,290
CNC Tool Operators \$38,450
Operating Engineers \$42,170
Welders, Cutters, Solderers & Brazers \$38,770



Long-Term OJT / Apprenticeship

Industrial Machinery Mechanics \$44,880
Automotive Body & Related Repairers \$35,740
Bus & Truck Mechanics & Diesel Eng. Spec. \$41,790
Electricians \$43,430
Machinists \$38,380
Carpenters \$39,110

Bachelor's / Graduate Degree

Mechanical Engineers \$66,120
Civil Engineers \$69,490*
Construction Managers \$77,240*

*Not on NWPA High Priority Occupations List, but included on the statewide PA In-Demand Occupations List (PA IDOL)
For a list of Top 50 Employers by county, visit <http://bit.ly/Top50Emps>

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This Pathway includes careers related to technologies necessary to design, develop, install, or maintain physical systems.

Are you interested in...

Building and construction
Tools, equipment and materials
Woodworking
Math and science classes
How things work
Precision work
Design and architecture
Engineering
Computer technology
Production management

Are you able to...

Apply science & math to the real world
Read and understand directions
Solve problems
Understand and read maps
Organize reports and people
See a task through to completion
Use a computer

Do you enjoy...

Travel
Working with your hands
Designing/working with projects & prototypes
Working in a lab
Working on a team
Operating tools and equipment
Paying close attention to detail

If you answered "yes" to many of these questions, you might consider a future in one of the occupations listed on the front of this flyer, or below.

Additional PA In-Demand Occupations

Short- or Moderate Term OJT

Multiple Machine Tool
Setters/Oprs/Tenders
School Bus Drivers
Elec. & Electromechanical Assemblers
Helpers – Production Workers
Light Truck Drivers
Printing Press Operators

And more...

Related Work Experience, Post- Secondary or Associate's Degree

Medical Equipment Repairers

Supervisors – Mechanics, Installers &
Repairers

Supervisors – Transportation & Material
Moving Workers

And more...

Long-Term OJT / Apprenticeship

Bus & Truck Mechanics &
Diesel Engine Specialists

Electrical Power-Line Installers &
Repairers

Machinery Maintenance Workers

And more...

Education / Training Resources

Adult Education & Career Readiness

Northwest Tri-County Intermediate Unit #5:
<https://www.iu5.org/community-services/adult-education>

Post-Secondary Education/Training Options

PA Eligible Training Provider List: <http://bit.ly/PACLETPL>
PA Colleges & Universities: <http://bit.ly/PACollegeandUniv>

To access the full *High Priority Occupations List* and the *PA IDOL* list, visit:

<https://www.nwpajobconnect.org/high-priority-occupations/>

To contact PA CareerLink® Erie County: 1-814-455-9966 (main); 1-814-871-4610 (TTY)
Auxiliary aids and services are available upon request to individuals with disabilities.
Equal Opportunity Employer / Program EO Officer Carrie Symes: 1-814-758-0659 or 711