

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 how things are made, moved, and kept running — from a construction site to a factory floor to the road? In your free time, do you like to use tools, work on vehicles, or figure out how mechanical things work? If you answered “yes” to some of these questions, then a career in Engineering & Industrial Technology might be right for you.

Career Cluster Areas

Advanced Manufacturing
Construction
Supply Chain & Transportation

For more information on these Career Clusters, visit <https://bit.ly/PAClusterFRMWRK>

Northwest PA

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

Select High Priority Jobs, Educational Attainment & Average Entry-Level Wages (2025)

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

Supervisors – Construction & Extraction Workers \$52,890
Automotive Service Technicians & Mechanics \$34,770
Tool & Die Makers \$44,550
Heavy & Tractor-Trailer Truck Drivers \$40,920
Electrical & Electronics Engr. Techs \$52,060

Short or Moderate-Term OJT

Construction Laborers \$36,500
Roofers \$42,020
CNC Tool Operators \$40,200
Operating Engineers \$46,250
Welders, Cutters, Solderers & Brazers \$41,090



Long-Term OJT / Apprenticeship

Industrial Machinery Mechanics \$45,350
Mobile Heavy Equipment Mechanics \$46,380
Bus & Truck Mechanics & Diesel Eng. Spec. \$43,850
Electricians \$43,230
Machinists \$40,760
Carpenters \$40,620

Bachelor's / Graduate Degree

Mechanical Engineers \$66,980
Civil Engineers \$70,660*
Construction Managers \$82,620*

*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 designing, building, producing, moving, and maintaining the physical goods and infrastructure that keep our region running – from construction and factory floors to trucking routes and repair shops.

Are you interested in...

Building and construction
Tools, equipment and materials
How things are made
Math and science classes
Vehicles and machinery
Moving goods and logistics
Precision work

Are you able to...

Apply science & math to real problems
Read and follow directions
Solve problems
Understand and read maps
Organize reports and processes
See a task through to completion
Use tools and technology

Do you enjoy...

Working with your hands
Building and fixing things
Designing/working with projects & prototypes
Working on a team
Operating tools and equipment
Being on the move
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

Inspectors, Testers, Sorters,
Samplers & Weighers

Coating, Painting & Spraying Machine
Setters/Oprs/Tenders

Production, Planning & Expediting
Clerks

And more...

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

Heating, A/C & Refrigeration Mechanics
& Installers

Supervisors – Mechanics, Installers &
Repairers

Supervisors – Production & Operating
Workers

And more...

Long-Term OJT / Apprenticeship

Automotive Body &
Related Repairers

Plumbers, Pipefitters & Steamfitters

Maintenance Workers, Machinery

And more...

Education / Training Resources

Adult Education & Career Readiness

Northwest Tri-County Intermediate Unit #5:
<https://bit.ly/IU5AdEDCR>

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