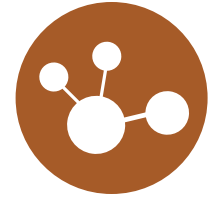


PLASTICS and POLYMERS



The Mid-Ohio Valley enjoys a significant competitive advantage for the plastics and polymers industry. Currently, the region’s concentration of plastics material and resin manufacturing jobs is more than 61 times higher than the nation overall. West Virginia has some of the richest natural gas in the region, which provides many opportunities for the creation of value-added products beyond its use as a basic commodity. As the natural gas industry grows in the Mid-Ohio Valley, plastics and polymers companies can benefit from the proximity of natural gas processing, using its byproducts to create various plastic products.

How to Get Started

Companies need employees with the drive and necessary skill sets to get up to speed and make a contribution almost immediately. The days where an individual can hire on and develop those skills at the employer’s expense are disappearing. Therefore, obtaining the skills for these occupations increases your chances at successfully landing a career in industrial maintenance and the skilled trades.

Companies may only require a high school diploma/equivalency but prefer some college or technical training. Computer skills are important as is the use of electronic devices.



Employers prefer applicants with college or technical training.

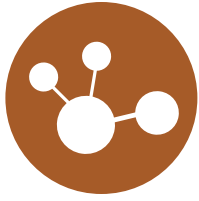
In-demand skills for plastics and polymers occupations

SKILLS AND QUALITIES	TECHNICAL SPECIALTIES
Problem Solving	Microsoft Office
Oral & Written Communication	Milling Machines
Detail Oriented	Extrusion Machines
Quality Control	Six Sigma
Strong Leadership	Furnaces

Source: Mid-Ohio Valley Workforce Study 2013

Skills needed in all plastics and polymers occupations

KNOWLEDGE	SKILLS	ABILITIES
Production & Processing	Operation Monitoring	Problem Sensitivity
Mechanical	Monitoring	Near Vision
Mathematics	Operation & Control	Oral Comprehension
Public Safety & Security	Critical Thinking	Oral Expression
English Language	Active Listening	Information Ordering



Plastics and polymers occupations

Administrative Assistant	47
Chemical Operator	47
Human Resources	47
Industrial Electrical Mechanic.....	48
Industrial Mechanic	48
Laboratory Technician	49
Manager	49
Occupational Health and Safety Specialist.....	50
Packaging Operator	50
Plant Inspector	51
Power Plant Operator	51
Process Control Specialist	52
Supervisor	52
Supply Chain and Logistics Analyst.....	53
Warehouse Operator	53

NOTICE

**THIS IS A
DRUG-FREE
WORKPLACE**

Many employers **REQUIRE** you pass a drug screen before employment **AND** conduct random drug screens.

FOR ADDITIONAL INFORMATION ON THESE OCCUPATIONS, VISIT


 [onetonline.org/](https://www.onetonline.org/)

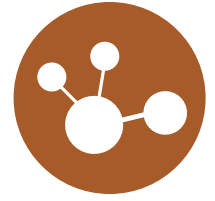


Administrative Assistant

Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers. **SOC Code: 43-6014**

 Associate degree

 \$9.73 – \$11.40 per hour



TOP COMPETENCIES NEEDED


KNOWLEDGE	SKILLS	ABILITIES
Clerical	Writing	Oral Comprehension
English Language	Active Listening	Near Vision
Customer & Personal Service	Reading Comprehension	Oral Expression
Computers & Electronics	Speaking	Written Comprehension
Administration & Management	Time Management	Written Expression




Safety awareness is a priority with employers.

Chemical Operator

Control or operate entire chemical processes or system of machines. **SOC Code: 51-8091**

 High school diploma or equivalent


 \$23.50 – \$27.30 per hour


TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Production & Processing	Operation Monitoring	Problem Sensitivity
Mechanical	Operation and Control	Near Vision
Chemistry	Monitoring	Selective Attention
Computers & Electronics	Quality Control Analysis	Information Ordering
Public Safety & Security	Critical Thinking	Oral Comprehension

Human Resources

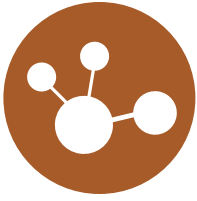
Perform activities in the human resources area. Includes employment specialists who screen, recruit, interview, and place workers. **SOC Code: 13-1071**

 Bachelor's degree

 \$16.72 – \$28.06 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Personnel & Human Resources	Active Listening	Oral Comprehension
English Language	Speaking	Oral Expression
Clerical	Reading Comprehension	Written Comprehension
Administration & Management	Critical Thinking	Deductive Reasoning
Customer & Personal Service	Writing	Speech Recognition



Industrial Electrical Mechanic

Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. **SOC Code: 49-2094**



Associate degree



\$22.94—\$30.19 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Computers & Electronics	Operation Monitoring	Near Vision
Engineering & Technology	Quality Control Analysis	Problem Sensitivity
Mechanical	Repairing	Arm-Hand Steadiness
English Language	Troubleshooting	Deductive Reasoning
Mathematics	Critical Thinking	Finger Dexterity

Industrial Mechanic

Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. **SOC Code: 49-9071**



High school diploma or equivalent



\$9.44 – \$15.73 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Mechanical	Equipment Maintenance	Arm-Hand Steadiness
Building & Construction	Repairing	Manual Dexterity
Customer & Personal Service	Troubleshooting	Near Vision
Public Safety & Security	Critical Thinking	Information Ordering
English Language	Equipment Selection	Problem Sensitivity

Laboratory Technician

Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences. **SOC Code: 19-4031**



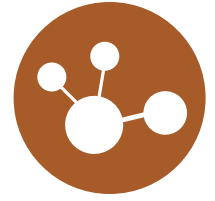
High school diploma or equivalent



\$13.21 – \$22.05 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Chemistry	Science	Information Ordering
Mathematics	Critical Thinking	Oral Comprehension
English Language	Reading Comprehension	Written Comprehension
	Monitoring	Deductive Reasoning
	Active Listening	Inductive Reasoning



Employers prefer applicants with college or technical training.

Manager

Plan, direct, or coordinate the operations of public or private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources. However, the duties and responsibilities are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. **SOC Code: 11-1021**



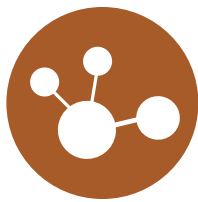
Associate degree



\$22.55 – \$41.46 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Administration & Management	Active Listening	Oral Comprehension
Customer & Personal Service	Reading Comprehension	Oral Expression
Personnel & Human Resources	Speaking	Problem Sensitivity
Economics & Accounting	Critical Thinking	Written Comprehension
Mathematics	Monitoring	Written Expression



Occupational Health and Safety Specialist

Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers. **SOC Code: 29-9011**



Bachelor's degree



\$28.16 – \$35.96 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
English Language	Active Listening	Problem Sensitivity
Law & Government	Complex Problem Solving	Deductive Reasoning
Education & Training	Critical Thinking	Inductive Reasoning
Public Safety & Security	Speaking	Oral Comprehension
Customer & Personal Service	Judgment & Decision Making	Oral Expression

Packaging Operator

Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products. **SOC Code: 51-9111**



High school diploma or equivalent



\$9.74 – \$17.10 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Production & Processing	Monitoring	Manual Dexterity
	Operation Monitoring	Near Vision
	Active Listening	Arm Hand Steadiness
	Coordination	Control Precision
	Quality Control Analysis	Oral Comprehension

Plant Inspector

Provides technical support and performs inspections on fixed equipment such as tank, boilers, vessels, piping, safety valves, etc. Ensures plant reliability, equipment mechanical integrity; complies with appropriate regulatory codes and mitigates risk. May also require appropriate certification by various organizations, such as ASME, API or NBIC. **SOC Code: 11-3051.01/49-1011/49-9012**



Associate degree



\$18.00 – \$26.00 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Mechanical	Critical Thinking	Problem Sensitivity
Regulatory Codes	Active Listening	Deductive Reasoning
Engineering Technology	Judgment & Decision Making	Inductive Reasoning
Public Safety & Security	Writing	Oral Expression
Administration/Management	Quality Control Analysis	Information Ordering

NOTICE

**THIS IS A
DRUG-FREE
WORKPLACE**

*Many employers **REQUIRE** you pass a drug screen before employment **AND** conduct random drug screens.*

Power Plant Operator

Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators. **SOC Code: 51-8013**



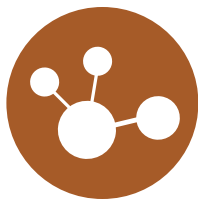
Associate degree



\$24.44 – \$31.49 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Mechanical	Operation Monitoring	Oral Comprehension
Public Safety & Security	Critical Thinking	Oral Expression
Computers & Electronics	Operation and Control	Problem Sensitivity
English Language	Speaking	Deductive Reasoning
Chemistry	Active Listening	Near Vision



Process Controls Specialist

Responsibility for process control systems and networks; troubleshooting system hardware and software issues and implementing repair. Must possess knowledge of instrumentations, process control schemes/automations and Distributed control Systems (DCS)/Programmable Logic controllers Systems (PLC). **SOC Code: 17-3029.04/51-8091**



Associate or Bachelor's Degree



\$18.00 – \$28.00 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
Computer & Electronics	Critical Thinking	Problem Sensitivity
Mathematics	Complex Problem Solving	Deductive Reasoning
Production/Processing	Operation Monitoring	Information Ordering
Engineering & Technology	Operation & Control	Inductive Reasoning
Safety & Environmental	Reading Comprehension	Visualization



Employers prefer applicants with college or technical training.

Supervisor

Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. **SOC Code: 51-1011**



High school diploma or equivalent



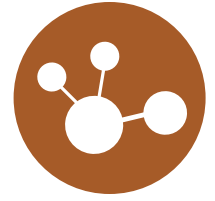
\$16.93 – \$26.87 per hour


TOP COMPETENCIES NEEDED


KNOWLEDGE	SKILLS	ABILITIES
Production & Processing	Active Listening	Deductive Reasoning
Mechanical	Speaking	Oral Comprehension
Administration & Management	Coordination	Oral Expression
Personnel & Human Resources	Critical Thinking	Problem Sensitivity
Engineering & Technology	Management of Personnel Resources	Written Comprehension

Supply Chain and Logistics Analyst

Analyze product delivery or supply chain processes to identify or recommend changes. May manage route activity, including invoicing, electronic bills, and shipment tracing. **SOC Code: 13-1081.02**



 Bachelor's degree


 \$17.26—\$27.29 per hour


TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
English Language	Reading Comprehension	Problem Sensitivity
Administration & Management	Complex Problem Solving	Written Comprehension
Mathematics	Critical Thinking	Deductive Reasoning
Transportation	Systems Analysis	Inductive Reasoning
Computers & Electronics	Systems Evaluation	Oral Comprehension

Warehouse Operator

Manually move freight, stock, or other materials or perform other general labor. Includes all manual laborers not elsewhere classified. **SOC Code: 53-7062**

 High school diploma or equivalent

 \$8.32 – \$11.82 per hour

TOP COMPETENCIES NEEDED

KNOWLEDGE	SKILLS	ABILITIES
		Static Strength
		Multi-limb Coordination
		Trunk Strength
		Control Precision
		Manual Dexterity