Combine job roles for learning pathways, or offer single job roles for targeted learning. Large comprehensive programs also available.

CAREER PATHWAYS FOR PLASTICS PROCESSING JOB ROLES

CAREER PATHWAYS FOR PLASTICS PROCESSING JOB ROLES

Online Training from Columbus State Community College and Tooling U-SME offers a quick-start, progressive road map that allows manufacturers to build career paths for employees. This online training is intended to enhance your existing on the job training, to create a job progression plan and requires minimal preparation. It is efficient, effective training that has been developed with input from manufacturing experts.

FLEXIBLE AND CONVENIENT

Online classes are self-paced, typically taking 60 minutes to complete. They are easily and conveniently accessible on desktops and laptops, and on tablets and phones with the Tooling U-SME app.

Online Training offers:

- Content developed by industry experts
- Accessible anytime, anywhere
- Self-paced
- Predefined curriculum for each job role
- Engaging and interactive content
- Pre- and post-training knowledge assessments
- Access to Tooling U-SME’s Learning Management System (LMS)
- Guidance from our Client Success team, including advice, insights, and ideas built on best practices and years of experience

To begin your training program or for more information, call MEP at Columbus State at 614-287-5000 or email mep@csc.edu
PLASTICS PROCESSING FUNDAMENTALS

Math Fundamentals
- Math: Fractions and Decimals
- Units of Measurement
- Basics of Tolerance
- Blueprint Reading
- Geometry: Lines and Angles

Geometry Fundamentals
- Geometry: Triangles
- Geometry: Circles and Polygons
- Trigonometry: Sine, Cosine, Tangent
- Basic Measurement
- Calibration Fundamentals
- Hole Standards and Inspection

Thread Standards and Inspection
- SDS and Hazard Communication
- Bloodborne Pathogens
- Personal Protective Equipment
- Noise Reduction and Hearing Conservation
- Lockout/Tagout Procedures

MOLD EXTRUSION OPERATOR

Thermoplastics
- Thermosets
- Electrical Units
- Safety for Electrical Work
- Introduction to Mechanical Systems

Safety for Mechanical Work
- Forces of Machines
- The Forces of Fluid Power
- Safety for Hydraulics and Pneumatics
- Introduction to Hydraulic Components

Introduction to Pneumatic Components
- Introduction to Fluid Conductors
- Fittings for Fluid Systems
- Preventative Maintenance for Fluid Systems

Principles of Injection Molding
- Intra to Machine Rigging
- Rigging Equipment
- Rigging Inspection and Safety
- Rigging Mechanics

Advanced Thermoset Resins for Composites
- Intro to Compression Molding
- Composite Inspection and Defect Prevention

MOLD MAKER

Basics of G Code Programming
- Basics of the CNC Lathe
- Basics of the CNC Mill
- Benchwork and Layout Operations
- Chucks, Collets, and Vises
- Clamping Basics

Classification of Steel
- Control Panel Functions for the CNC Lathe
- Control Panel Functions for the CNC Mill
- Coordinates for the CNC Lathe
- Coordinates for the CNC Mill

Engine Lathe Basics
- Engine Lathe Operation
- Engine Lathe Setup
- Holemaking on the Manual Mill
- Intro to EDM
- Intro to Fastener Threads

Introduction to CNC Machines
- Locating Devices
- Machine Guarding
- Manual Mill Basics
- Manual Mill Operation
- Manual Mill Setup

Offsets on the CNC Lathe
- Offsets on the CNC Mill
- Safety for Metal Cutting
- SPC Overview
- Supporting and Locating Principles
- Surface Texture and Inspection

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