



PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

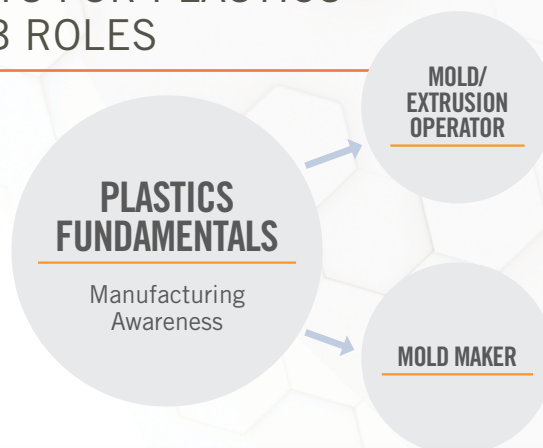
Online Training from Northwest State Community College and Tooling U-SME offers a quick-start, progressive road map that allows manufacturers to build career paths for employees. This online training is intended to enhance your existing on the job training, to create a job progression plan and requires 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.

CAREER PATHWAYS FOR PLASTICS PROCESSING JOB ROLES

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



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

Choose a starting point based on employee's experience or company goals for a quick-start training solution.

PLASTICS PROCESSING

PLASTICS PROCESSING FUNDAMENTALS

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

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

Thread Standards and Inspection
Intro to OSHA
Personal Protective Equipment
Noise Reduction and Hearing Conservation
Lockout/Tagout Procedures

SDS and Hazard Communication
Bloodborne Pathogens
Walking and Working Surfaces
Fire Safety and Prevention
Hand and Power Tool Safety
Safety for Lifting Devices

Powered Industrial Truck Safety
Introduction to Mechanical Properties
Introduction to Plastics
Lean Manufacturing Overview
ISO 9001:2015 Review
5S Overview

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
Intro 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

Introduction to GD&T
Major Rules of GD&T
Troubleshooting
Basic Cutting Theory
Speed and Feed for the Lathe

Speed and Feed for the Mill
Cutting Tool Materials
Carbide Grade Selection
Creating a CNC Milling Program
Calculations for Programming the Mill

Canned Cycles for the Mill
Grinding Processes
Grinding Safety
Basics of the Surface Grinder
Basics of the Cylindrical Grinder

Setup for the Surface Grinder
Setup for the Cylindrical Grinder
Surface Grinder Operation
Cylindrical Grinder Operation
Introduction to Grinding Fluids

Grinding Variables
Grinding Wheel Materials
Grinding Wheel Geometry
Dressing and Truing
Grinding Wheel Selection

