

Online Training from MACNY 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.

PLASTICS FUNDAMENTALS

> Manufacturing Awareness

MOLD/ EXTRUSION OPERATOR

MOLD MAKER

### 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 Eileen Donovan, Workforce Development Specialist, at 315.474.4201, ext. 22 or email edonovan@macny.org.

## **PLASTICS PROCESSING**

#### PLASTICS PROCESSING FUNDAMENTALS

Basic Measurement
Basics of Tolerance
Blueprint Reading
Calibration Fundamentals
Hole Standards and Inspection
Thread Standards and Inspection

5S Overview
Lean Manufacturing Overview
Introduction to Mechanical Properties
Introduction to Plastics
ISO 9001 Review
Bloodborne Pathogens

Fire Safety and Prevention Hand and Power Tool Safety Intro to OSHA Lockout/Tagout Procedures Noise Reduction and Hearing Conservation

Personal Protective Equipment Powered Industrial Truck Safety Safety for Lifting Devices SDS and Hazard Communication Walking and Working Surfaces Geometry: Circles and Polygons

Geometry: Lines and Angles Geometry: Triangles Math Fundamentals Math: Fractions and Decimals Trigonometry: Sine, Cosine, Tangent Units of Measurement

### MOLD EXTRUSION OPERATOR

Advanced Thermoset Resins for Composites

Composite Inspection and Defect Prevention

Intro to Compression Molding Electrical Units Safety for Electrical Work Fittings for Fluid Systems Introduction to Fluid Conductors Introduction to Hydraulic Components Introduction to Pneumatic Components

Preventive Maintenance for Fluid Systems

Safety for Hydraulics and Pneumatics The Forces of Fluid Power Thermoplastics
Thermosets
Forces of Machines
Introduction to Mechanical Systems

Safety for Mechanical Work

Intro to Machine Rigging Rigging Equipment Rigging Inspection and Safety Rigging Mechanics

### **MOLD MAKER**

Basics of the Cylindrical Grinder Basics of the Surface Grinder Cylindrical Grinder Operation Dressing and Truing Grinding Processes Grinding Safety Grinding Variables Grinding Wheel Geometry Grinding Wheel Materials Grinding Wheel Selection Introduction to Grinding Fluids
Setup for the Cylindrical Grinder
Setup for the Surface Grinder
Surface Grinder Operation
Calculations for Programming the Mill

Canned Cycles for the Mill Creating a CNC Milling Program Introduction to GD&T Major Rules of GD&T Troubleshooting Basic Cutting Theory Carbide Grade Selection Cutting Tool Materials Speed and Feed for the Lathe Speed and Feed for the Mill





