



**CENTER for
ECONOMIC
GROWTH**

PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Training Packages from Tooling U-SME offer quick-start, progressive road maps in various functional areas that allow manufacturers to build career paths for employees. They are intended to enhance your existing OJT and help you create a job progression plan. Unlike many other training programs, these packages require minimal preparation. They are efficient, effective training, 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 are 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

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

PLASTICS PROCESSING

PLASTICS PROCESSING FUNDAMENTALS

Basic Measurement	5S Overview	Fire Safety and Prevention	Personal Protective Equipment	Geometry: Lines and Angles
Basics of Tolerance	Lean Manufacturing Overview	Hand and Power Tool Safety	Powered Industrial Truck Safety	Geometry: Triangles
Blueprint Reading	Introduction to Mechanical Properties	Intro to OSHA	Safety for Lifting Devices	Math Fundamentals
Calibration Fundamentals	Introduction to Plastics	Lockout/Tagout Procedures	SDS and Hazard Communication	Math: Fractions and Decimals
Hole Standards and Inspection	ISO 9001 Review	Noise Reduction and Hearing Conservation	Walking and Working Surfaces	Trigonometry: Sine, Cosine, Tangent
Thread Standards and Inspection	Bloodborne Pathogens		Geometry: Circles and Polygons	Units of Measurement

MOLD EXTRUSION OPERATOR

Advanced Thermoset Resins for Composites	Electrical Units	Introduction to Pneumatic Components	The Forces of Fluid Power	Safety for Mechanical Work
Composite Inspection and Defect Prevention	Safety for Electrical Work	Preventive Maintenance for Fluid Systems	Thermoplastics	Intro to Machine Rigging
Intro to Compression Molding	Fittings for Fluid Systems	Safety for Hydraulics and Pneumatics	Thermosets	Rigging Equipment
	Introduction to Fluid Conductors		Forces of Machines	Rigging Inspection and Safety
	Introduction to Hydraulic Components		Introduction to Mechanical Systems	Rigging Mechanics

MOLD MAKER

Basics of the Cylindrical Grinder	Grinding Safety	Introduction to Grinding Fluids	Canned Cycles for the Mill	Basic Cutting Theory
Basics of the Surface Grinder	Grinding Variables	Setup for the Cylindrical Grinder	Creating a CNC Milling Program	Carbide Grade Selection
Cylindrical Grinder Operation	Grinding Wheel Geometry	Setup for the Surface Grinder	Introduction to GD&T	Cutting Tool Materials
Dressing and Truing	Grinding Wheel Materials	Surface Grinder Operation	Major Rules of GD&T	Speed and Feed for the Lathe
Grinding Processes	Grinding Wheel Selection	Calculations for Programming the Mill	Troubleshooting	Speed and Feed for the Mill

— New content is always being added. Check with your representative for the most current list of classes. —

