PLASTICS PROCESSING

THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from The Ohio State University Business Training & Educational Services 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

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TOOLINGU | sme

For more information, call Kim Sayers Director, BTES, 330.287-0100, or email sayers.1@osu.edu.

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
- 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

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

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