



**CENTER for
ECONOMIC
GROWTH**

PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from the Center for Economic Growth 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 FORMING, FABRICATING AND STAMPING 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.

FORMING, FABRICATING, STAMPING

FORMING FABRICATING STAMPING FUNDAMENTALS

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

PRESS OPERATOR

Electrical Units	Troubleshooting	Press Brake Safety	Die Cutting Variables	Essentials of Communication
Introduction to Circuits	Introduction to Mechanical Systems	Press Brake Specifications	Die Setting Procedures	Essentials of Leadership
Introduction to Hydraulic Components	Bending Fundamentals	Approaches to Maintenance	Monitoring Press Operations	Introduction to Workholding
Introduction to GD&T	Die Bending Operations	Coil Handling Equipment	Press Basics	Supporting and Locating Principles
Major Rules of GD&T	Operating the Press Brake	Coil Loading Procedures	Punch and Die Operations	
Total Productive Maintenance	Press Brake Components	Die Components	Stamping Safety	

DIEMAKER

Basic Grinding Theory	Grinding Nonferrous Materials	Introduction to Grinding Fluids	Creating a CNC Milling Program	Speed and Feed for the Mill
Basics of the Cylindrical Grinder	Grinding Processes	Setup for the Cylindrical Grinder	Holemaking on the Manual Mill	Material Tests for Welding
Basics of the Surface Grinder	Grinding Safety	Setup for the Surface Grinder	Basic Cutting Theory	
Cylindrical Grinder Operation	Grinding Variables	Surface Grinder Operation	Carbide Grade Selection	
Dressing and Truing	Grinding Wheel Geometry	Calculations for Programming the Mill	Cutting Tool Materials	
Grinding Ferrous Metals	Grinding Wheel Materials	Canned Cycles for the Mill	Speed and Feed for the Lathe	

