FORMING, FABRICATION, STAMPING

DVIRC

PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from DVIRC 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, FABRICATION 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

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To begin your training program or for more information, call DVIRC at 215-464-8550 or email info@dvirc.org

Mix and match all offerings for personal job progression paths.

FORMING, FABRICATION, STAMPING

FORMING FABRICATIONG STAMPING 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 Physical Properties
- Introduction to Mechanical Properties
- Ferrous Metals
- Lean Manufacturing Overview
- ISO 9001:2015 Review
- 5S Overview
- Band Saw Operation
- Manufacturing Process Applications: Part I

PRESS OPERATOR

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

DIEMAKER

- Basic Cutting Theory
- Speed and Feed for the Lathe
- Speed and Feed for the Mill
- Cutting Tool Materials
- Carbide Grade Selection
- Holemaking on the Manual Mill
- Creating a CNC Milling Program
- Calculations for Programming the Mill
- Canned Cycles for the Mill
- Grinding Processes
- Grinding Safety
- Basic Grinding Theory
- 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 Ferrous Metals
- Grinding Nonferrous Metals
- Grinding Wheel Materials
- Grinding Wheel Geometry
- Dressing and Truing
- Material Tests for Welding

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