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 ASSEMBLY 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

To begin your training program or for more information, contact us at (518) 465-8975 x244 or workforce@ceg.org
Choose a starting point based on employee’s experience or company goals for a quick-start training solution.

**ASSEMBLY**

**ASSEMBLER**
- Types of Adhesives
- Coating Defects
- Intro to Coating Composition
- Processes for Applying Coatings
- Surface Preparation for Coatings
- Introduction to Assembly
- Introduction to Fastener Threads
- Overview of Non-Threaded Fasteners
- Overview of Threaded Fasteners
- Safety for Assembly
- Tools for Threaded Fasteners
- Basic Measurement
- Basics of Tolerance
- Blueprint Reading
- Calibration Fundamentals
- Hole Standards and Inspection
- Thread Standards and Inspection
- 5S Overview
- Lean Manufacturing Overview
- Ferrous Metals
- Introduction to Mechanical Properties
- ISO 9001 Review
- Intro to Machine Rigging
- Rigging Equipment
- 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
- Math Fundamentals
- Math: Fractions and Decimals
- Units of Measurement

**ASSEMBLY MECHANIC**
- Basics of the Bonding Process
- Steps for Adhesive Application
- DC Circuit Components
- Electrical Units
- Introduction to Circuits
- Safety for Electrical Work
- Properties for Fasteners
- Fittings for Fluid Systems
- Introduction to Fluid Conductors
- Introduction to Hydraulic Components
- Introduction to Pneumatic Components
- Safety for Hydraulics and Pneumatics
- Introduction to GD&T
- Major Rules of GD&T
- Metrics for Lean
- Troubleshooting
- Introduction to Mechanical Systems
- Lubricant Fundamentals
- Safety for Mechanical Work
- Lifting and Moving Equipment
- Rigging Inspection and Safety
- Geometry: Circles and Polygons
- Geometry: Lines and Angles
- Geometry: Triangles
- Trigonometry: Sine, Cosine, Tangent
- Overview of Soldering

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