



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 ASSEMBLY JOB ROLES

Combine job roles for learning pathways, or offer single job roles for targeted learning. Large comprehensive programs also available.

ASSEMBLER

MECHANIC

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.

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

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

