



## PROFESSIONAL DEVELOPMENT

### LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from RTMA 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**

**Electro-Mechanical Assembler**

### 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

## ELECTRO-MECHANICAL ASSEMBLER

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

