



## PROFESSIONAL DEVELOPMENT

### LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from MassMEP 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.

## ADDITIVE MANUFACTURING FUNDAMENTALS

Additive Manufacturing as a Secondary Process  
Additive Manufacturing Methods and Materials  
Additive Manufacturing Safety  
Design for Additive Manufacturing  
Integrating Additive Manufacturing with Traditional Manufacturing  
Introduction to Additive Manufacturing  
The Basic Additive Manufacturing Process  
Basic Measurement  
Blueprint Reading  
Calibration Fundamentals  
Hole Standards and Inspection  
Inspecting with CMMs  
Introduction to GD&T  
Surface Texture and Inspection  
The Basics of Tolerance  
Thread Standards and Inspection  
Continuous Process Improvement: Identifying and Eliminating Waste

Continuous Process Improvement: Managing Flow  
Lean Manufacturing Overview  
Total Productive Maintenance  
Classification of Steel  
Essentials of Heat Treatment of Steel  
Exotic Alloys  
Ferrous Metals  
Hardness Testing  
Introduction to Mechanical Properties  
Introduction to Metals  
Introduction to Physical Properties  
Nonferrous Metals  
Approaches to Maintenance  
Applied and Engineering Sciences  
Manufacturing Process Applications: Part I  
Manufacturing Process Applications: Part II  
Math: Fractions and Decimals  
Math Fundamentals  
Units of Measurement  
Approaches to Maintenance

## 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