



## 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.

## ADDITIVE MANUFACTURING FUNDAMENTALS

Introduction to Additive Manufacturing  
Additive Manufacturing Safety  
The Basic Additive Manufacturing Process  
Design for Additive Manufacturing  
Additive Manufacturing Methods and Materials  
Integrating Additive Manufacturing with Traditional Manufacturing  
Additive Manufacturing as a Secondary Process  
Hardness Testing  
Approaches to Maintenance  
Total Productive Maintenance  
Inspecting with CMMs  
Introduction to Physical Properties  
Introduction to Mechanical Properties  
Introduction to Metals  
Classification of Steel  
Essentials of Heat Treatment of Steel  
Ferrous Metals  
Nonferrous Metals

Exotic Alloys  
The Basics of Tolerance  
Blueprint Reading  
Basic Measurement  
Calibration Fundamentals  
Hole Standards and Inspection  
Thread Standards and Inspection  
Surface Texture and Inspection  
Introduction to GD&T  
Math Fundamentals 1  
Applied and Engineering Sciences  
Math: Fractions and Decimals  
Units of Measurement  
Manufacturing Process Applications: Part I  
Manufacturing Process Applications: Part II  
Lean Manufacturing Overview  
Continuous Process Improvement:  
Managing Flow  
Continuous Process Improvement:  
Identifying and Eliminating Waste

### 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