



## PROFESSIONAL DEVELOPMENT

### LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from Columbus State Community College 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.

## QUALITY TECHNICIAN

Math Fundamentals  
 Math: Fractions and Decimals  
 Units of Measurement  
 Basics of Tolerance  
 Blueprint Reading  
 Geometry: Lines and Angles  
 Geometry: Triangles  
 Geometry: Circles and Polygons  
 Trigonometry: Sine, Cosine, Tangent  
 Basic Measurement  
 Calibration Fundamentals  
 Hole Standards and Inspection  
 Thread Standards and Inspection  
 Surface Texture and Inspection  
 Introduction to GD&T  
 Major Rules of GD&T  
 Inspection a Prismatic Part  
 Inspecting a Cylindrical Part  
 Advanced Hole Inspection

Inspecting with Optical Comparators  
 Inspecting with CMMs  
 Calibration and Documentation  
 In-Line Inspection Applications  
 Intro to OSHA  
 Personal Protective Equipment  
 Noise Reduction and Hearing Conservation  
 Lockout/Tagout Procedures  
 SDS and Hazard Communication  
 Bloodborne Pathogens  
 Walking and Working Surfaces  
 Fire Safety and Prevention  
 Hand and Power Tool Safety  
 Safety for Lifting Devices  
 Powered Industrial Truck Safety  
 Introduction to Mechanical Properties

Essentials of Heat Treatment of Steel  
 Hardness Testing  
 Ferrous Metals  
 Lean Manufacturing Overview  
 ISO 9001:2015 Review  
 5S Overview  
 SPC Overview  
 Cutting Processes  
 Overview of Machine Tools  
 Basic Cutting Theory  
 Band Saw Operation  
 Introduction to Metal Cutting  
 Fluids  
 Metal Cutting Fluid Safety  
 Linear Instrument Characteristics

## 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