



PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Training Packages from Tooling U-SME offer quick-start, progressive road maps in various functional areas that allow manufacturers to build career paths for employees. They are intended to enhance your existing OJT and help you create a job progression plan. Unlike many other training programs, these packages require minimal preparation. They are efficient, effective training, 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 ENGINEERING JOB ROLES

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

ENGINEERING FUNDAMENTALS ENGINEERING TECHNICIAN

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







ENGINEERING

ENGINEERING FUNDAMENTALS

Additive Manufacturing Methods and Materials

Additive Manufacturing Safety
Introduction to Additive Manufacturing
Introduction to CAD and CAM for
Machining

AC Fundamentals

DC Circuit Components Electrical Units Introduction to Circuits Introduction to Assembly Basics of Tolerance Blueprint Reading

Lean Manufacturing Overview
Essentials of Heat Treatment of Steel
Introduction to Ceramics
Introduction to Composites
Introduction to Mechanical Properties
Introduction to Metals

Introduction to Physical Properties Introduction to Plastics Cutting Processes Algebra Fundamentals Geometry: Circles and Polygons Geometry: Lines and Angles Geometry: Triangles Statistics Trigonometry: Sine, Cosine, Tangent Trigonometry: The Pythagorean Theorem Units of Measurement

ENGINEERING TECHNICIAN

Basics of G Code Programming Parallel Circuit Calculations Series Circuit Calculations

Introduction to Hydraulic Components Introduction to Pneumatic Components

The Forces of Fluid Power Introduction to GD&T SPC Overview Troubleshooting Classification of Steel Ferrous Metals Hardness Testing Nonferrous Metals Thermoplastics Thermosets

Power Transmission Components
Drill Tool Geometry

Lathe Tool Geometry

Mill Tool Geometry
Basics of Ladder Logic
Introduction to PLCs
PLC Timers and Counters
Basic Ladder Diagram Programming
for Siemens PLCs

Basics of Siemens PLCs Siemens PLC Communication Equipment/Tool Design and Development ISO 9001 Review Process Design and Development Product Design and Development Production System Design and

Development
Quality and Customer Service
Automated Systems and Control
Hand and Power Tool Safety
Applied and Engineering Sciences

Manufacturing Process Applications: Part I

Manufacturing Process Applications: Part II

Punch and Die Operations Manufacturing Management Personal Effectiveness Introduction to Welding Processes

Fixture Design Basics
Supporting and Locating Principles

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





