

PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from CIFT 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 ENGINEERING JOB ROLES

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









To begin your training program or for more information, contact Cathy Witte at (419) 535-6000 Ext. 142 or cwitte@ciftinnovation.org

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

Lathe Tool Geometry

Power Transmission Components Drill 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:

Manufacturing Process Applications:

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. —









