

**FloridaMakes**



## PROFESSIONAL DEVELOPMENT

### LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from Florida Makes 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, call Florida Makes at 407-450-7206 or email [info@floridamakes.com](mailto:info@floridamakes.com)

## ENGINEERING FUNDAMENTALS

Units of Measurement	Geometry: Circles and Polygons	Introduction to Metals	Electrical Units	Additive Manufacturing Safety
Basics of Tolerance	Trigonometry: The Pythagorean Theorem	Introduction to Plastics	Introduction to Circuits	Additive Manufacturing Methods and Materials
Blueprint Reading	Trigonometry: Sine, Cosine, Tangent	Essentials of Heat Treatment of Steel	DC Circuit Components	Intro to Assembly
Algebra Fundamentals	Statistics	Lean Manufacturing Overview	AC Fundamentals	Introduction to Composites
Geometry: Lines and Angles	Introduction to Physical Properties	Cutting Processes	Introduction to Ceramics	
Geometry: Triangles	Introduction to Mechanical Properties	Introduction to CAD and CAM for Machining	Introduction to Additive Manufacturing	

## ENGINEERING TECHNICIAN

Supporting and Locating Principles	ISO 9001:2015 Review	Basics of Siemens PLCs	Introduction to Pneumatic Components	Production System Design and Development
Fixture Design Basics	Troubleshooting	Siemens PLC Communication	Power Transmission Components	Equipment/Tool Design and Development
Introduction to GD&T	SPC Overview	Basic Ladder Diagram Programming for Siemens PLCs	Introduction to Welding Processes	Automated Systems and Control
Hand and Power Tool Safety	Lathe Tool Geometry	Forces of Machines	Applied and Engineering Sciences	Quality and Customer Service
Classification of Steel	Mill Tool Geometry	Introduction to PLCs	Manufacturing Process Applications: Part I	Manufacturing Management
Hardness Testing	Drill Tool Geometry	Basics of Ladder Logic	Manufacturing Process Applications: Part II	Personal Effectiveness
Ferrous Metals	Basics of G Code Programming	Networking for PLCs	Product Design and Development	
Nonferrous Metals	Punch and Die Operations	The Forces of Fluid Power	Process Design and Development	
Thermoplastics	Series Circuit Calculations	Introduction to Hydraulic Components		
Thermosets	Parallel Circuit Calculations			



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