WELDING

FloridaMakes

PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

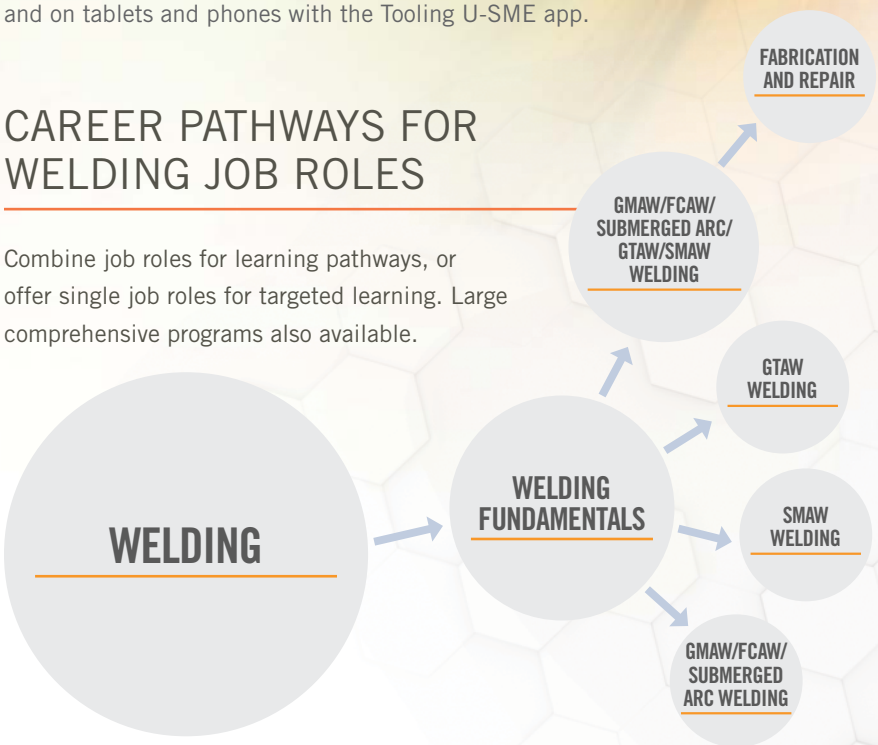
Online Training from Florida Makes and Tooling U-SME offers a quick-start, progressive road map that allows manufacturers to build career paths for employees. This online training is intended to enhance your existing on the job training, to create a job progression plan and requires minimal preparation. 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 WELDING JOB ROLES

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



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

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Mix and match all offerings for personal job progression paths.

WELDING

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- Basic Measurment
- Calibration Fundamentals
- Intro to OSHA
- Personal Protective Equipment
- Noise Reduction and Hearing Conservation
- Lockout/Tagout Procedures
- SDS and Hazard Communication
- Walking and Working Surfaces
- Fire Safety and Prevention
- Flammable/Combustible Liquids
- Safety for Lifting Devices
- Powered Industrial Truck Safety
- Introduction to Physical Properties
- Introduction to Mechanical Properties
- Introduction to Metals
- Ferrous Metals
- Nonferrous Metals
- Lean Manufacturing Overview
- ISO 9001:2015 Review
- 5S Overview
- Welding Safety Essentials
- PPE for Welding
- Welding Fumes and Gases Safety
- Electrical Safety for Welding
- Introduction to Welding
- Introduction to Welding Processes
- Math Fundamentals for Welding
- Geometry Fundamentals for Welding
- Welding Ferrous Metals
- Welding Nonferrous Metals
- Overview of Weld Types
- Electrical Power for Arc Welding

WELDING FUNDAMENTALS

- Units of Measurement
- Blueprint Reading
- Intro to OSHA
- Personal Protective Equipment
- Noise Reduction and Hearing Conservation
- Respiratory Safety
- Lockout/Tagout Procedures
- SDS and Hazard Communication
- Bloodborne Pathogens
- Walking and Working Surfaces
- Fire Safety and Prevention
- Flammable/Combustible Liquids
- Ergonomics
- Hand and Power Tool Safety
- Safety for Lifting Devices
- Powered Industrial Truck Safety
- Confine Spaces
- Environmental Safety Hazards
- Safety for Metal Cutting
- introduction to CAD and CAM for
- Machining
- Welding Safety Essentials
- PPE for Welding
- Welding Fumes and Gases Safety
- Electrical Safety for Welding
- Math Fundamentals for Welding
- Geometry Fundamentals for Welding
- Overview of Weld Defects
- Welding Symbols and Codes
- Thermal Cutting Overview
- Plasma Cutting
- Oxyfuel Cutting Applications
- Machine Guarding

GMAW FCAW SUB ARC

- Introduction to Metals
- Ferrous Metals
- Nonferrous Metals
- Approaches to Maintenance
- Total Productive Maintenance
- Troubleshooting
- Electrical Units
- Safety for Electrical Work
- Introduction to Circuits
- Introduction to Magnetism
- DC Circuit Components
- NEC Overview
- AC Fundamentals
- Electrical Instruments
- Electrical Print Reading
- DC Power Sources
- AC Power Sources
- Conductor Selection
- Series Curcuit Calculations
- Parallel Circuit Calculations
- Battery Selection
- Safety for Machanical Work
- Introduction to Welding
- Introduction to Welding Processes
- Material Tests for Welding
- Welding Ferrous Metals
- Welding Nonferrous Metals
- Overview for Weld Types
- Electrical Power for Arc Welding
- Introduction to GMAW
- Introduction to FCAW
- GMAW Applications
- Advanced GMAW Applications
- FCAW Applications
- Personal Effectiveness
- Essentials of Communication

GTAW

- Introduction to Physical Properties
- Introduction to Mechanical Properties
- Introduction to Metals
- Classification of Steel
- Ferrous Metals
- Nonferrous Metals
- Exotic Alloys
- Approaches to Maintenance
- Total Productive Maintenance
- Troubleshooting
- Electrical Units
- Safety for Electrical Work
- Introduction to Circuits
- Introduction to Magnetism
- DC Circuit Components
- NEC Overview
- AC Fundamentals
- Electrical Instruments
- Electrical Print Reading
- DC Power Sources
- AC Power Sources
- Conductor Selection
- Series Circuit Calculations
- Parallel Circuit Calculations
- Battery Selection
- Safety for Mechanical Work
- Introduciton to Welding
- Introduction to Welding Processes
- Material Tests for Welding
- Welding Ferrous Metals
- Wleding Nonferrous Metals
- Overview of Weld Types
- Introduction to GTAW
- GTAW Applications
- Personal Effectiveness
- Essentials of Communication

SMAW

- Introduction to Physical Properties
- Introduction to Mechanical Properties
- Introduction to Metals
- Ferrous Metals
- Nonferrous Metals
- Approaches to Maintenance
- Total Productive Maintenance
- Troubleshooting
- Electrical Units
- Safety for Electrical Work
- Introduction to Circuits
- Introduction to Magnetism
- DC Circuit Components
- NEC Overview
- AC Fundamentals
- Electrical Instruments
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- Introduction to SMAW
- SMAW Applications
- Personal Effectiveness
- Essentials of Communication

FABRICATION AND REPAIR

- Introduction to Workholding
- Supporting and Locating Principles
- Locating Devices
- Fixture Body Construction
- Fixture Design Basics
- Math Fundamentals
- Math: Fractions and Decimals
- Algebra Fundamentals
- Geometry: Lines and Angles
- Geometry: Triangles
- Geometry: Circles and Polygons
- Trigonometry: The Phythagorean Theorem
- Trigonometry: Sine, Cosine, Tangent
- Trigonometry: Sine Bar Applications
- Statistics
- Classification of Steel
- Essentials of Heat Treatment of Steel
- Band Saw Operation
- Fabrication Process
- Intro to Assembly
- Safety for Assembly
- Applied and Engineering Sciences
- Essentials of Leadership
- Conflict Resolution Principles
- Conflict Resolution for Different Groups
- Team Leadership

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