

WELDING JOB ROLES

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

GTAW

GMAW/FCAW/

SUBMERGED ARC/ GTAW/SMAW

WEIDING

WELDING

WELDING **FUNDAMENTALS**

SMAW WELDING

WELDING

GMAW/FCAW/ SUBMERGED ARC WELDING

- 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 DVIRC at 215-464-8550 or email info@dvirc.org

Mix and match all offerings for personal job progression paths.

WELDING

WELDING

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 PPF 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 Respiratory Safety

Lockout/Tagout Procedures SDS and Hazard Communication Bloodborne Pathogens Walking and Working Surfaces Fire Safety and Prevention Flammable/Combustible Liquids Frgonomics

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

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 AC Fundamentals Electrical Instruments Flectrical 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 Allovs Approaches to Maintenance

Total Productive Maintenance Troubleshooting Electrical Units Safety for Electrical Work Introduction to Circuits Introduction to Magnetism DC Circuit Components NEC Overview

Flectrical 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

Safety for Flectrical Work Introduction to Circuits Introduction to Magnetism DC Circuit Components NFC Overview AC Fundamentals Flectrical Instruments

Electrical Print Reading DC Power Sources AC Power Sources Conductor Selection Series Curcuit Calculations Parallel Circuit Calculations **Battery Selection** Safety for Mechanical Work

Introduction to Welding Introduction to Welding Processes Material Tests for Welding Welding Ferrous Metals Welding Nonferrous Metals Overview of Weld Types Electrical Power for Arc Welding 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 Trigonometry: Sine, Cosine, Tangent Trigonometry: Sine Bar Applications Statistics 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 Team Leadership



