

Welding Training & Education

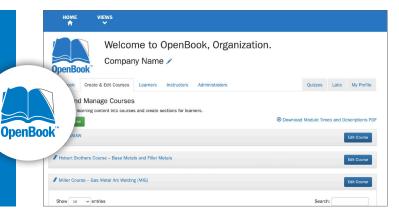
Miller OpenBook™

FREE, interactive online training resources, educational materials and tracking tools

FREE TEACHING MATERIAL

Ideal for high school and post-secondary welding programs

(Aligns with Miller Books available for FREE on iTunes)



Customize Your Classroom

Implement materials that fit your curriculum and learning objectives.

- · OpenBook includes:
 - Over 70 e-Learning modules
 - Weld lab activities compatible with Miller AugmentedArc
 - Course, Quiz and Lab Builders
 - Reports and tracking of student progress
 - Customizable Certificates of Completion
 - Miller & Hobart Pre-Defined Courses with Certificates of Completion
 - Track individual student progress
 - All materials align with AWS SENSE Standards

HOME COURSES SWITCH ORGANIZATION Arc Transfer Modes Shart Croud Transfer Modes Short Circuit Transfer (GMAW-S) Miller. Are Transfer Modes Short Circuit Transfer (GMAW-S) Miller. Toloint Notes Duelles Short Circuit Transfer (GMAW-S) Short Circuit Transfer (GMAW-S) Arc Transfer Modes Short Circuit Transfer (GMAW-S) Arc Transfer Arc Transfer Modes Short Circuit Transfer (GMAW-S) Arc Tr

Motivate & Engage Students

- Interactive, stimulating learning includes videos and activities
- · Quick, digestible segments
- · Mobile friendly
 - Easy to access homework from anywhere
 - Students can check grades and status
- Certificate of achievement awarded from Miller and Hobart for pre-curated courses.



For details, visit OpenBook.MillerWelds.com



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E-learning Module Topics

Basic Electricity

- · Basic Electricity
- Secondary Power
- Terms for Welding
- Types of Welding Power Sources
- · Resistance: Secondary Cables

Introduction to Welding

- · Miller Safety Quick Guide
- · Material Joining Processes
- Different Welding Processes
- · Electrical Terms
- · Electrical Arc Welding Processes
- Weld Types, Positions and Symbols
- · Fillet Welding Symbols
- · Groove Welding Symbols
- · Selecting Filler Metal or Electrodes
- · Preparation for Arc Welding
- Understanding Blueprints
- Blueprint Reading Basic Lines and Views

Introduction to Metals

- · Introduction
- · Mechanical Properties
- Testing Hardness Types
- Physical Properties
- · Metal Classifications
- · Identifying Metals

FCAW

- Equipment
- · Wire Feeders
- · The Welding Gun
- · Welding Variables
- · Wires
- · Shielding Gases
- · Common Weld Defects

Cutting Processes

- Introduction
- · Plasma Arc Cutting Equipment
- Torch Consumables
- · Cutting Sequence

SMAW

- · Process Overview
- · Current and Polarity
- · Arc Control, Dig & Hot Start
- · Accessories
- · Electrode Classification
- · Electrode Selection
- · Electrode Characterization
- · Welding Variables
- · Welding Techniques
- Welding Defects
- · Joint Types

GTAW

- · Advantages and Limitations
- Current
- Arc Starting Methods
- · GTAW-P Welding
- Equipment and Torch Parts
- Automated
- · Electrodes
- · Shielding Gases
- Filler Metals
- · Power Supply and Welding Prep
- Joint Types

GMAW

- History and Overview
- · Primary and Secondary Power
- Equipment
- · Wire Feeders
- · The Welding Gun
- Welding Variables
- Wires
- · Arc Transfer Modes
- · Shielding Gases
- · Welding Joint Types
- · Spot, Plug and Slot Welding
- · Welding Techniques
- · Common Weld Defects

Aluminum

- · Introduction to Aluminum Filler Metals
- · Selecting Aluminum Filler Metals
- Aluminum Weld Preparation and Treatment
- · Aluminum GTAW
- Aluminum GMAW
- · Aluminum Troubleshooting

Troubleshooting Welding Processes

- Troubleshooting Control Cables and Shielding Gas
- Troubleshooting GMAW Systems
- Troubleshooting Resistance: The Unrecognized Welding Variable
- Troubleshooting Shielding Gasses & GTAW Systems
- Troubleshooting SMAW Systems
- Troubleshooting Work Clamps and Weld Cables