

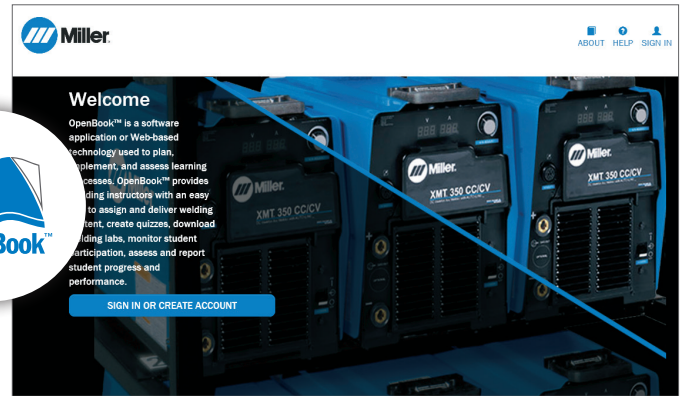
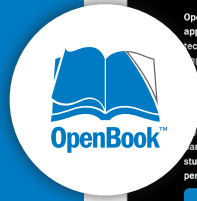
## Miller OpenBook™

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

### FREE TEACHING MATERIAL

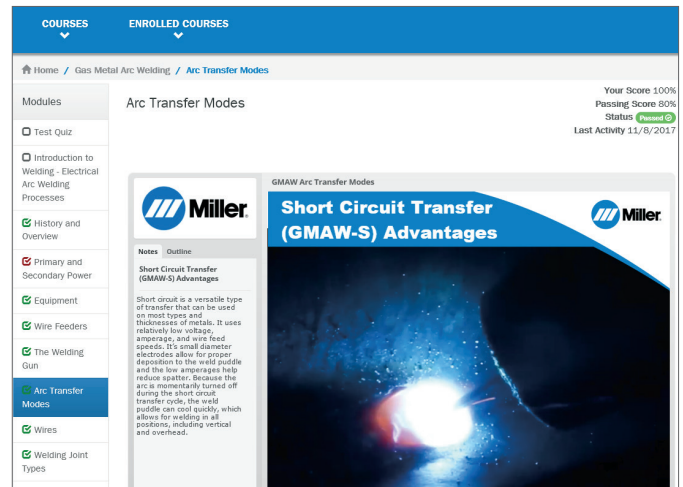
Ideal for high school and post-secondary welding programs

(Aligns with Miller Books available for FREE on iTunes)



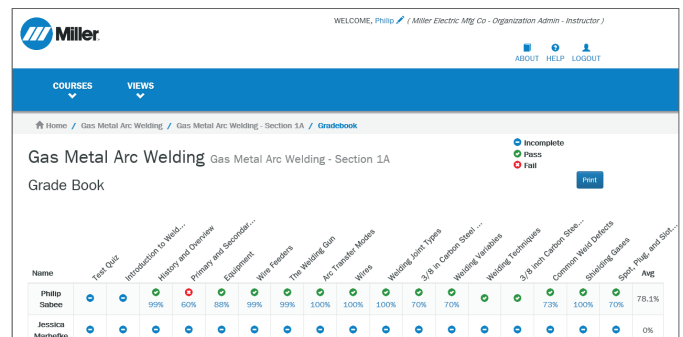
### Customize Your Classroom

- Implement materials that fit your curriculum and learning objectives, including:
  - e-Learning modules
  - Weld lab activities
  - Course builder
  - Quiz builder
  - Lab builder
- Track individual student progress
- All material aligns with AWS standards



### 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



For details, visit [OpenBook.MillerWelds.com](http://OpenBook.MillerWelds.com)



## E-learning Module Topics

### Basic Electricity

- Basic Electricity
- Secondary Power
- Terms for Welding
- Types of Welding Power

### Cutting Processes

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

### GTAW CONT.

- Electrodes
- Shielding Gases
- Filler Metals
- Power Supply and Welding Prep
- Joint Types

### 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
- Arc Welding Markets

### 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

### 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

### Introduction to Metals

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

### GTAW

- Advantages and Limitations
- Current
- Arc Starting Methods
- GTAW-P Welding
- Equipment and Torch Parts
- Automated