

Advanced Technique Training (continued)

The courses below are also for professional welders who are seeking specialized training in advanced techniques required to upgrade skill level and qualify themselves for additional career opportunities. All enrolling students should already possess the fundamental welding skills in the major processes before they choose to specialize in advanced technique training.

GAS TUNGSTEN ARC WELDING– GTAW, TIG (60 HOURS):

Note: Students training exclusively on aluminum and/or stainless steel may be required to supply appropriate practice material.

DESCRIPTION: This course is designed for the experienced welder, and includes instruction in Gas Tungsten Arc Welding on materials of varying thickness. It involves welding various joints in all four positions.

OBJECTIVES: To develop or upgrade Gas Tungsten Arc Welding skills and prepare the graduate to enter the welding field as a TIG welder on at least an entry level position. Specifically, the graduate should be able to:

1. Properly prepare metal prior to welding.
2. Set up and operate a Gas Tungsten Arc Welding machine.
3. Choose the proper filler wire for different job requirements.
4. Weld plate in flat, horizontal, vertical, and overhead positions.

COURSE OF STUDY:

Carbon Steel/Stainless Steel/Aluminum Rod:	
Flat Position.....	18 hours
Horizontal Position.....	12 hours
Vertical Position.....	24 hours
Overhead Position.....	6 hours
TOTAL = 60 hours	

GAS METAL ARC WELDING– GMAW, MIG (60 HOURS):

DESCRIPTION: This course is designed for the experienced welder, and includes instruction in Gas Metal Arc Welding on materials of varying thickness. It involves welding various joint designs in all four positions.

OBJECTIVES: To develop or upgrade Gas Metal Arc Welding skills and prepare the graduate to enter the welding field as a MIG welder on at least an entry level position. Specifically, the graduate should be able to:

1. Properly prepare metal prior to welding.
2. Set up and operate a Gas Metal Arc Welding machine.
3. Choose the proper filler wire for different job requirements.
4. Weld plate in flat, horizontal, vertical, and overhead positions.

COURSE OF STUDY:

Short Circuit/Globular/Spray Transfer Modes:	
Flat Position.....	18 hours
Horizontal Position.....	12 hours
Vertical Position.....	24 hours
Overhead Position.....	6 hours
TOTAL = 60 hours	

FLUX CORED ARC WELDING– FCAW (60 HOURS):

DESCRIPTION: This course is designed for the experienced welder, and includes instruction in Flux Cored Arc Welding on materials of varying thickness. It involves welding various joint designs in all four positions.

OBJECTIVES: To develop or upgrade Flux Cored Arc Welding skills and prepare the graduate to enter the welding field as a production flux cored arc welder on at least an entry level position. Specifically, the graduate should be able to:

1. Properly prepare metal prior to welding.
2. Set up and operate a Flux Cored Arc Welding machine.
3. Choose the proper filler wire for different job requirements.
4. Weld plate in flat, horizontal, vertical, and overhead positions.

COURSE OF STUDY:

Self-shielded/Gas-shielded:	
Flat Position.....	18 hours
Horizontal Position.....	12 hours
Vertical Position.....	24 hours
Overhead Position.....	6 hours
TOTAL = 60 hours	