



ARC WELDING

Training Workshop

Industrial Training, Inc. designed this workshop for the beginner as well as the most advanced welder. A single workshop targets students at all levels with fundamental, intermediate and advanced training. Combining students with different skill levels in one workshop reinforces previously learned information. Each workshop is custom designed regarding content and equipment including pipe welding, certification, processes (MIG, TIG, Fluxcore, etc.), cast iron, stainless steel, aluminum, titanium, brazing, annealing, stress relieving, and fabrication needs. All training is delivered in accordance with AWS, OSHA, and ASME standards.

- State the hazards associated with Oxy-Fuel Systems
- Identify hazards associated with Oxy-Fuel Systems
- Perform safe and efficient operation of Oxy-Fuel Systems
- State the hazards associated with Arc Welding
- Identify the hazards associated with Arc Welding
- Perform Arc Welding in all positions
- Interpret joint design and process
- Demonstrate crack repair and fish plate installation
- Demonstrate electrode selection and machine set-up



The following is a typical day to day to outline of the welding course. The first thing our instructor will do is meet with the supervisor(s) and find out exactly what their needs and concerns for this class are to make sure these are addressed. Depending on students skill level, some may finish the class quicker than others; those will be used to work on (finish) any projects the company needs done.



Day One

- Oxy-fuel and welding safety
- Setup and usage of oxy-fuel systems
- Begin welding flat plates

Day Two

- Continue welding flat plates
- Start welding vertical plates

Day Three

- Continue welding vertical plates
- Start welding overhead

Day Four

- Continue welding overhead
- Show how to use wash tip on torch
- Show how to run carbon arc gouge (if company has one available)
- Work on any project work company needs done

Attendees will perform on a Portable 8-Pack Welder, and each will receive a Lincoln Electric New Lessons in Arc Welding textbook. This “hands-on” approach allows the student to augment their skills for improved maintenance performance.