



Build Your Team's Expertise - Fast

# Swagelok® Orbital Weld Training

Learn and enhance skills necessary for quality orbital welds.

## Is Swagelok Orbital Weld Training for Me?

Our welding training emphasizes the theories and skills associated with gas tungsten arc-based orbital welding (GTAW) with both classroom and hands-on training in a four-day course. Because of the complexity of skills required to consistently achieve good orbital welds, new and even experienced welders must be trained using cutting-edge techniques from qualified instructors. The techniques taught in this course can be applied to any automatic gas tungsten arc welding system.

All classes are taught by experienced instructors who have earned the qualifications of Certified Weld Inspector (CWI) and Certified Weld Educator (CWE).

## Who should take this course?

- Experienced welders or weld operators desiring to upgrade their skills or learn about welding under ASME qualifications
- Welders or weld operators without orbital welding experience who want to learn the technique
- Supervisors of orbital welding operations
- Engineers who design systems that include orbital welding
- Quality assurance and quality control personnel wishing to learn about weld quality



### Local Orbital Welder Training

This training provides instruction on the fundamentals and benefits of orbital welding. Learners gain knowledge on equipment setup and operation in order to use our Orbital Welder rental.

### Advanced Orbital Welder Training

If you're designing a critical fluid system, you're likely looking at welding for assembly. With the Swagelok M200 welding system, it's easy to make precise, consistent, quality welds.

This five-day course that will train welders of all experience levels to provide quality, repeatable welds with the most advanced tubing welding process available.

#### Course Objectives:

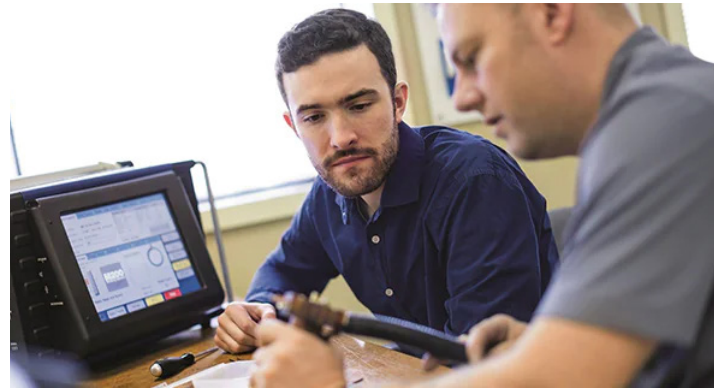
- Understand basic metallurgy and industry standards and specifications for welding
- Set up and operate orbital welding equipment
- Learn how to select, use and care for tungsten electrodes
- Learn how proper gas selection and purging techniques affect the quality of a weld
- Practice troubleshooting common issues and learn preventive maintenance procedures that will protect your equipment investment
- Practice orbital weld procedures on applications with up to 4 inch diameter tubing
- Develop a weld procedure and adjust the variables of the GTAW process to impact the quality of a weld

### ASME Qualifications

An optional fifth day at the end of the course is available if you wish to learn more about welding under ASME Section IX; the facility, consumables and equipment necessary to obtain your qualification will be provided.

### Successful Course Completion

Upon successfully demonstrating the ability to prepare and weld a tubing system without assistance from the facilitator or peers, participants will receive a Certificate of Completion.



### Swagelok's M200 Welding System:

**For projects requiring a consistent and efficient approach to welding**  
**Gain precision and control combined with easy-to-use touchscreen operation**

With the Swagelok M200 welding system, it's easy to make precise, consistent, quality orbital gas tungsten arc welds (GTAW) cost-effectively for both tubing and pipe. The unit features a lightweight, portable



power supply, supporting a wide assortment of weld configurations and available with a selection of weld heads. Tools and accessories include tungsten electrodes, gauges, collets, and fixtures.

The system also features real-time monitoring and recording capabilities, streamlining documentation for easy adherence to industry requirements.

**Contact any of our local sales and service centers for more information.**

**Birmingham**  
205.988.4812

**Mobile**  
251.625.2949

**Tampa**  
863.425.3222

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