

3-Day Orbital Welding Setup and Operation Class Agenda

Day 1

- **AM**
 - Overview of GTAW process (Basic variables, Purging)
 - Overview of operations of Welding System functions and operations (Hands on walkthrough of unboxing, connecting, setting up Power Supply and Shielding / ID Purging gas. Unbox orbital weld head.
 - Explain the features of fixture block (side plates, plenums, collets, adjusting alignment, using the arc gap gage, etc...)
- **PM**
 - Walk students through all the screen functions and options available to them.
 - Using the autogenerate function to create a welding program for 1/2" X .049" SS tubing (or other materials per customer's request).
 - Define what makes an acceptable weld.
 - Explain how to Evaluate a weld and generate a weld coupon.

Day 2

- **AM**
 - Explain how the level adjustment feature is used on the power supply.
 - Develop weld parameters to meet specific weld size (Root width)
 - Create a weld program for making a dissimilar thickness weld using the level adjustment feature on a previously developed weld program.
- **PM**
 - Unbox other sizes of orbital weld head.
 - Explain the features of those fixture block (standard side plate vs thin side plate, collets (tube & pipe), alignment of side plates, arc gap gage, etc...)
 - Create weld program for 1-1/2 X .065 wall SS tubing (or other materials per customer's request).
 - Repackaging orbital weld heads.

Day 3

- **AM**
 - Autogenerate a new program for 1/4" x .035" SS tubing (or other materials per customer's request) using appropriate weld head.
 - Coupon in to the SOP.
 - Weld "spool" assembly to mock-up Custom Solutions applications (Using MicroFit tees, elbows, and VCR glands make assembly using various collets and fixture plates on appropriate weld head. (Standard forged weld fittings can be used as a replacement for MicroFit fittings)





- PM
 - Continue to weld “spool” assembly to mock-up custom solutions applications.
 - Repackage orbital weld heads.
 - Course review.

Thank you for your interest in our training program!

If you have any questions regarding this class agenda or need further information, please don't hesitate to contact us.

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We look forward to supporting your learning journey!

