

# JATC Course Descriptions

**All classes require participants to be a UA member in good standing.**

## [Semiconductor Orbital Tube Welding](#)

This course will instruct the member in the techniques used in the semiconductor, pharmaceutical, biotechnology, and food processing plants. This course will cover automatic orbital welding safe practices and equipment use. Certification for the UA-18A test will be administered at the end of the course with the approval of the instructor in addition to a written test. Test coupons are sent out to x-ray. The written test and UA-18A test must both be passed in order to have successfully completed course.

Requirements: Must wear work attire. Students will need to bring a flashlight, gloves, and safety glasses to class. Attendance is required.

## [Semiconductor Plastics Fitter Class](#)

This course will cover PVC and CPVC Bonding, Hot PVC containment pipe bending, and IR fusion with PVDF and Polypro systems. The bonding portion will cover the ASTM standards and industry installation practices, with hands on PVC solvent cement bond, including proper installation of PVC flange and union installations. Hot PVC containment piping will cover bending techniques of clear PVC pipe into simple 90's to multiple offset bends. The IR portion will cover the use of the IR 63+, 110+, and the 225+ fusion equipment. This course will include hands-on with three Georg Fischer machines.

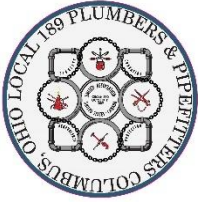
At the completion of this course the member will have the opportunity to complete the GF IR welding and UA Bonding certification performance tests.

Requirements: Must wear work attire and attendance is required.

## [Semiconductor Stainless Fitter Class](#)

The course is designed to train the member about high purity piping. It is designed for members who are seeking proven tube bending, isometric drawing design, proper handling, and installation techniques. It will cover the handling of CLEANED materials and proper use of tools that are used in cleanrooms and the importance of proper protocols being used in the cleanroom environment to prevent contamination from entering the cleanroom. Individuals will be taught to identify stainless steel tubing type and grade. Students will receive instruction on how to set up inside diameter purge of tubing to prepare for severing, facing, and orbital welding. The course will include how a stainless-steel fitter can help the orbital welder achieve a high-purity weld. Safety and potential hazards while working in a semiconductor environment will be included. Enrolling students should possess basic math and isometric drawing skills.

Requirements: Must wear work attire. Attendance is required.



### [Gas Metal Arc Welding \(GMAW\)](#)

This course covers pipe welding techniques used in applications such as welding alloy materials and process piping. The student will learn advanced techniques of gas metal arc welding and the process variables for a variety of materials.

Requirements: Must wear work attire. Students must bring their own welding hood, welding jacket and welding gloves. Attendance is required.

### [UA/EPRI Industrial Rigging Certification](#)

Participants will be trained in the planning and precautions required when lifting materials and equipment. Students will learn proper and safe rigging of loads, proper applications of slings and rigging hardware, uses of rigging hardware, calculations of rigging loads and equipment, proper maintenance of rigging equipment, and rigging personal protective equipment. The UA/EPRI certification exam is administered at the end of the course requiring a minimum score of 80% on the written portion as well as successful completion of the performance exam to receive the UA/EPRI Rigging and Crane Signaling Certification.

Requirements: Must wear work attire. Attendance is required.

### [State of Ohio Backflow Certification](#)

This class will prepare the member to test/repair various backflow prevention devices that are used to protect the public water supply. At the successful completion of the course the instructor will refer the student to take the State of Ohio Backflow Certification exam. The member also has the option to take the ASSE Backflow Certification exam. The cost for the ASSE exam is at the expense of the member.

Requirements: The State of Ohio requires 5 years' experience in the plumbing trade. The State of Ohio application will be filled out and submitted the first night of class. The instructor will determine if the student is prepared to sit for the State of Ohio Backflow Certification exam. Work attire must be worn to class. Attendance is required.

### [National ITC Medical Gas Installer/Brazer Certification](#)

This class will prepare the member to work in hospital and doctor's office settings as well as prepare the student to take the National ITC Medical Gas Installer and Brazer Certification tests.

Requirements: Minimum 4 years' documented experience in the field of installation of plumbing or mechanical systems. The application for the test is filled out the first night of class. Work attire must be worn to class and attendance is required.

*The classes listed will be scheduled at a future time. If you would like to have your name, put on the list to be scheduled for a particular class, please contact the JATC Office. We will need your name, phone number, and email address. If you are a member of another UA Local Union, please include your Local Union number and UA card number.*