

Career Major:

Structural Welder



Pathway:
Welding & Metal Fabrication

Cluster:
Manufacturing

Career description:

Structural Welders are skilled in several different types of welding including Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux-Core Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). Structural welders weld two or more pieces of plate metal together to build structures. They are skilled in the properties of metal, oxyfuel, plasma arc and air carbon arc cutting, blueprint reading, and weld quality inspection.

Courses:

- Air Carbon Arc Cutting and Gouging
- FCAW Plate
- Fundamentals of Cutting Processes
- Fundamentals of Welding
- GMAW Plate
- GMAW/FCAW Equipment and Setup
- GTAW Aluminum Plate
- GTAW Equipment & Filler Materials
- GTAW Plate
- Metal Characteristics and Properties
- Metal Preparation and Heat Treatments
- Oxyfuel Cutting
- Plasma Arc Cutting
- SMAW Beads and Fillet Welds
- SMAW Electrodes
- SMAW Equipment & Setup
- SMAW Groove Welds and Backing
- SMAW Open V-Groove Welds
- Weld Quality
- Welding Blueprints
- Welding Detail Drawings
- Welding Joint Fit-Up and Adjustment
- Workforce Staging

Additional Career Majors In This Pathway:

- GMAW Welder - Pipe
- SMAW Welder - Pipe
- FCAW Pipe Welder
- Structural & Pipe Welder
- GMAW Welder - Structural
- SMAW - Structural
- FCAW Structural Welder

AVERAGE SALARY

\$29,740/year

Program Length:

840 hours

Who Can Attend:

High school students or adults

Schedules Available:

Morning class: 8:10-11:00 am

Afternoon class: 12:40-3:30 pm

FULL-TIME STUDENTS:

Attend both sessions.

Entrance Requirements:

If you are a high school student, please contact your high school counselor about enrollment. Prospective adult students should contact a Meridian career counselor for enrollment information.

Tuition:

Tuition is free for students enrolled in one of our district high schools. Students can attend during their junior and senior years or during their senior year and the year following graduation. Scholarships are available to qualified applicants who graduate from one of our district high schools if they enroll within two years of graduation. Adult tuition is based on the number of hours in the chosen career major. A Meridian career counselor will be able to provide more information.

College Credit:

College credit is available for this career. Please contact a Meridian career counselor for more information.

Licensure/Certification:

In addition to certification from Meridian, optional certification is available from the American Welding Society. For further information, please visit their website at <http://www.aws.org>.