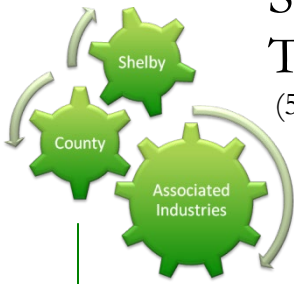


Shelby County Associated Industries Training Consortium

(502) 633-5068 | scidf.com/associated-industries



Welding for Maintenance

Provides basic instruction needed for student to weld using SMAW (Stick), GMAW (MIG), GTAW (TIG), and Oxy-Fuel processes.

13-week course

This course counts for **5 hours** college credit. You will not need to take any outside steps to get admitted or enrolled. On the first day of class, JCTC will be there to get basic information (one page with address, DOB, email, etc.). Upon completion, this course will show on each student's academic transcript.

Competencies:

Upon completion of this course, the student can:

1. Explain welding safety.
2. Describe the selection, care, and storage of Oxy-Fuel cutting equipment.
3. Explain the identification, selection, and storage of SMAW (stick welding) electrodes.
4. Apply principles of SMAW (stick welding) process to cutting welding metals.
5. Describe the set up and use of SMAW (stick welding) equipment.
6. Explain the application of basic metallurgy principles.
7. Explain the proper use of shop equipment and tools.
8. Explain the set up and use of GMAW (MIG) welders.
9. Explain the set up and use of GTAW (TIG) welders.

Outline:

I. Introduction

- A. Safety principles for welding
- B. Shop equipment and tools
- C. Principles of basic metallurgy

II. SMAW Electrodes

- A. Identification
- B. Principles
- C. Selection
- D. Storage

III. Welders

A. Set up

1. SMAW
2. Oxy-fuel cutting equipment
3. MIG
4. TIG

B. Use

1. SMAW
2. Oxy-fuel cutting equipment
3. MIG
4. TIG