GMAW PLATE
Course Syllabus

Course Number: WELD-0386
OHLAP Credit: No
OCAS Code: None
Course Length: 60 Hours
Career Cluster: Manufacturing
Career Pathway: Welding and Metal Fabrication
Career Major(s): Combination Welder

Pre-requisite(s): This course covers how to build a pad of stringer and weave beads using filler metals and shielding gas. Students will learn how to perform GMAW multi-pass fillet welds on plate in multiple positions.

Textbooks/Materials:
- Math for Welders, Marion and Nino, GoodHeart- Willcox (2001)

Course Objectives:

A. Demonstrate an Understanding of GMAW – Plate Welding

1. Perform GMAW multipass fillet welds on plate, using solid or composite wire and shielding gas in multiple positions. ¹ ²
2. Perform GMAW multipass groove welds on plate, using solid or composite wire and shielding gas in multiple positions. ¹ ²
3. Perform GMAW spray fillet and groove welds on plate, using solid or composite wire and shielding gas in flat and horizontal positions. ³
5. Makes fillet welds in the 1F and 2F positions on carbon steel.
7. Passes GMAW (spray) welder performance qualification test on carbon steel.

¹ Welding Skills, National Center for Construction Education and Research (NCCER)
² Level I, Entry Level Welder, Module 5, American Welding Society (AWS)
³ Level III, Plate Welder, Module 8, American Welding Society (AWS)

Teaching Methods:
The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.
Grading Procedures:
1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment:
Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit:
The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility:
The student must maintain a grade point average of 2.0 or better.