

AUBO-144-SHEET METAL WELDING 3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course is designed to introduce the students to MIG welding procedures, set up and terminology used in sheet metal welding. The students will be exposed to all areas of MIG, oxy acetylene, and plasma torch industry safety. This course will provide the students with the basic knowledge and hands on experience to successfully demonstrate proper sheet metal welds in a variety of joints and welding positions.

Prerequisites: None

Semester Offered: Fall, Spring

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Develop safe work habits when working with all welding equipment.
2. Meet industry sheet metal welding standards in all welding positions.
3. Apply basic welding skills in the auto body environment.

Specific Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Safely demonstrate the use of the plasma torch, oxy acetylene torch and MIG welder.
2. Identify all components of the plasma torch, oxy acetylene torch and MIG welder.
3. Demonstrate proper tack, stitch, butt, lap, T, corner, and spot welding techniques consistent with I CAR Standards.
4. Apply the correct welding procedures necessary to successfully weld a patch or replacement panel in position.