

WELD-129 BASIC WELDING

4 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course will cover introductory theory and practical applications of structural plate welding, welding safety, handheld torch cutting operations and equipment set up. The development of student skills using the Shielded Metal Arc Welding process in all positions will be stressed.

Prerequisites: None

Semester Offered: Fall and 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. Provide the student with safety practices.
2. Familiarize students with Welding Terminology.
3. Gain an understanding of equipment and basic welding skills.

A copy of this approved syllabus is on file in the dean's office.
Updated 12/14/18

SPECIFIC LEARNING OUTCOMES

1. Participate in the welding safety program.
2. Define basic terms associated with welding.
3. Identify basic metals.
4. Identify and operate oxy-acetylene cutting equipment.
5. Operate arc welding equipment.
6. Use basic hand tools and shop equipment to safely construct mild steel plates.
7. Weld in the flat, horizontal, vertical and overhead positions.