

WELD-111 WELDING FOR TRADES AND INDUSTRY

2 CREDITS

SYLLABUS

CATALOG DESCRIPTION

Course covers procedures, processes, equipment, and terminology employed in welding and related fields. Welding equipment and industry safety will also be covered. Provides students with the basic knowledge and hands on experience to perform basic cutting operations. Stresses the theory and practical application of stick electrode welding with E6010, E7018, and E7024 Electrodes.

Prerequisites: None

Semester Offered: Fall

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.

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

3. Provide basic understanding of welding plus ox/acetylene equipment and their use.

SPECIFIC LEARNING OUTCOMES

1. Participate in the welding safety program.
2. Define terms associated with metals.
3. Perform basic metal identification.
4. Identify and operate oxy-acetylene cutting equipment.
5. Operate arc-welding equipment.
6. Weld basic joints in various positions.