

WELD-133 PLATE WELDING I 4 CREDITS

SYLLABUS

CATALOG DESCRIPTION

A continuation of Weld 130 with an emphasis on bend tests using light steel plate welded in all positions. The Shielded Metal Arc Welding (SMAW) process using E6010 and E7018 electrodes will be utilized. Weld quality will be measured using visual and destructive testing methods.

Corequisites: WELD-129, WELD-130, WELD-131

Prerequisites: WELD-134, WELD-135, WELD-136

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. Understand basic welding terminology and vocabulary.

2. Prepare test coupons to AWS standards.
3. Understand basic welding inspection methods.
4. Development of motor skills related to arc length and electrode manipulation.

SPECIFIC LEARNING OUTCOMES

1. Deposit beads in the Flat, Horizontal, Vertical, and overhead positions using E6010 and E7018 electrodes.
2. Weld test plates in all positions that will pass a visual inspection and face/root bends.
3. Select the proper electrode for the job.
4. Properly utilize the track torch for beveling of test coupons.