

WELD-209-ADVANCED 6-G PIPE WELDING 3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

Emphasis on Pipe welding techniques in the 6-G position using both RIG and WMAW welding processes. Theory and practice will be covered in modern methods of pressure piping systems.

Prerequisites: WELD-204, WELD-205, WELD-206, WELD-207

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. Weld pipe using a combination of welding processes.
2. Weld in the 6-G position.
3. Recognize the defects associated with the different welding processes.
4. Visually inspect for weld quality.

5. Weld then prepare test coupons that will withstand a root and face bend. Inspection will consist of both visual and destructive methods.