SAN JUAN COLLEGE
Success Matters

WELD-130 BASIC WELDING II 4 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course will cover commonly used joint configurations and practical applications of these joints using structural plate. Advancing the development of student's skills using Shielded Metal Arc Welding in all positions and E-6010, E-7018 and E-7024 electrodes will be stressed.

Prerequisites: WELD-129, WELD-131, WELD-132

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. Identify various structural joints.
2. Prepare structural joints to be welded using safe practices.
3. Create commonly used structural joints using Shielded Metal Arc Welding.

SPECIFIC LEARNING OUTCOMES

1. Participate in the welding safety program.
2. Define basic terms associated with parts of a weld.
3. Identify basic structural joints.
4. Identify in addition to operate oxy-acetylene cutting and track torch equipment.
5. Create and assemble t-joints as well as lap joints using mild steel plate.
6. Weld t-joints and lap joints in the flat, horizontal, vertical and overhead positions.