

SYLLABUS

COURSE# AND TITLE SPTO 295 Basic Welding # OF CREDITS 3

CATALOG DESCRIPTION

Course covers procedures, processes, equipment, and terminology employed in welding along with related fields. Welding equipment and industrial safety will be covered. Provides students with the basic knowledge and hands-on experience to perform basic arc welding and gas cutting operations. Stresses the theory and practical applications of stick electrode welding. This class does not articulate with degree or certificate programs.

Semester Offered: Fall and Spring

Prerequisites: None

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will...

<i>Learn</i>	<i>Students will actively and independently acquire, apply and adapt skills and knowledge to develop expertise and a broader understanding of the world as lifelong learners.</i>
<i>Think</i>	<i>Students will think analytically and creatively to explore ideas, make connections, draw conclusions, and solve problems.</i>
<i>Communicate</i>	<i>Students will exchange ideas and information with clarity and originality in multiple contexts.</i>
<i>Integrate</i>	<i>Students will demonstrate proficiency in the use of technologies in the broadest sense related to their field of study.</i>
<i>Act</i>	<i>Students will act purposefully, reflectively, and respectfully in diverse and complex environments.</i>

GENERAL LEARNING OBJECTIVES

1. Select and care for arc welding equipment.
2. Be familiar with safety precautions.
3. Be familiar with welding terms and definitions.

SPECIFIC LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to...

1. List common equipment needed in arc welding.
2. Identify the effects of raising and lowering arc welding current.
3. Name and use three kinds of electrodes.
4. Discuss reasons for poor welds.
5. Identify meaning of numbers in the electrode code classification system.
6. Name the components of an Ox/Acetylene cutting system.
7. Light, adjust and use the torch with a neutral flame for cutting.
8. Weld various structural joints

Syllabus developed by _____ Date: _____

Syllabus reviewed by _____ Date: _____

A current syllabus must be on file in the dean's office for every course being taught during a given semester.