

WELD A116: ARC AND OXYACETYLENE WELDING PRACTICE LEVEL 2

Item	Value
Curriculum Committee Approval Date	11/15/2017
Top Code	095650 - Welding Technology
Units	1-2 Total Units
Hours	54-108 Total Hours (Lab Hours 54-108)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	Yes
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S)

Course Description

A second-level laboratory class to develop skills in SMAW and oxy-acetylene welding. PREREQUISITE: WELD A100 or WELD A101 or concurrent enrollment. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Weld in various positions i.e. flat, horizontal, vertical or overhead.
2. Weld SMAW in all positions.
3. Cut materials using various thermal cutting processes.

Course Objectives

- 1. Demonstrate SMAW flat position welding
- 2. Demonstrate SMAW horizontal position welding
- 3. Demonstrate SMAW vertical position welding
- 4. Demonstrate SMAW overhead position welding
- 5. Demonstrate thermal cutting.

Lecture Content

Shielded Metal Arc Welding Flat position Horizontal position Vertical position Overhead position Oxygen Acetylene Welding Vertical position Overhead position Thermal cutting

Lab Content

Shielded Metal Arc Welding Flat position Horizontal position Vertical position Overhead position Oxygen Acetylene Welding Vertical position Overhead position Thermal cutting

Method(s) of Instruction

- Lab (04)

Instructional Techniques

Textbook reading, demonstrations, skills evaluation, and instructional critique

Reading Assignments

Skills evaluation, demonstration, and critiques Proficiency demonstrated by psycho-motor skills Proficiency demonstrated in vocabulary and meaning

Writing Assignments

Skills evaluation, demonstration, and critiques Proficiency demonstrated by psycho-motor skills Proficiency demonstrated in vocabulary and meaning

Out-of-class Assignments

Skills evaluation, demonstration, and critiques Proficiency demonstrated by psycho-motor skills Proficiency demonstrated in vocabulary and meaning

Demonstration of Critical Thinking

Project, certification plates

Required Writing, Problem Solving, Skills Demonstration

Project, certification plates

Eligible Disciplines

Welding: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Galvry, William and Frank Marlow. Welding Essentials: Questions and Answers , 2nd ed. New York: Industrial Press, 2007

Other Resources

1. Orange Coast College Welding Safety Test Selected handout materials to be provided and distributed by the instructor.