

**BARSTOW COMMUNITY COLLEGE COURSE OUTLINE****WELD 50****Dept & Nbr:** WELD 50**Abbrev Title:** OXYA WELD & CUTTING**Full Title:** OXYACETYLENE WELDING AND CUTTING**Old Number:** WELD1 & WELD 100**Title 5 Category:** Associate Degree Applicable**Certificate Applicable:** YES

--Units--	Course Hours Per Week	Nbr of Wks	Course Hours	Total
Max: 3.0	Lecture 2.0	18	Lecture	36.0
Min: 0.0	Lab 3.0		Lab	54.0
	Contact DHR 0.0		Contact DHR	0.0
	Contact Total 5.0		Contact Total	90.0
	Non-contact DHR 0.0		Non-contact DHR	0.0

**Selected Topic:** No**Grading:** Option (A-F) P/NP**Concurrent Course:** None**Repeat Code** 0: May be repeated two times with a grade of less than "C".**Basic Skills** 0: Course is not a basic skills course.**CATALOG DESCRIPTION:**

Materials, equipment and safety practice in oxyacetylene welding and cutting.

**PREREQUISITES:** None**COREQUISITES:** None**RECOMMENDED PREPARATION:** None**COURSE CONTENT:**

- I.** Welding safety
- II.** Types of fuels and flames
- III.** Torches and cylinders
- IV.** Regulators
- V.** Materials
- VI.** Oxy-Act Cutting
- VII.** Oxy-Act Welds

**STUDENT LEARNING OUTCOMES:****A. Define Learning Outcomes of this Course:**

Upon successful completion of this course the student will be able to:

- 1. Demonstrate safety principles in working situations.
- 2. Set-up Oxy Act welding equipment.
- 3. Produce sound Oxy-Act welds.
- 4. Identify basic materials.
- 5. Demonstrate fabrication principles.
- 6. Use an Oxy-Act cutting torch.

**B. Critical Thinking Tasks / Assignments:**

Critical Thinking: Student will be able to demonstrate critical thinking as class moves to put all material in proper welding perspective. The student will respond by visualizing and making the welds.

Other Outside Class Assignments:

1. Study
2. Skill practice
3. Required reading
4. Problem solving activity or exercise

**C. Measurement of Student Learning Outcomes:**

1. This is a degree-applicable course, but substantial writing assignments are NOT appropriate because it:
  - Primarily involves skill demonstrations or problem solving
2. Computational or non-computational problem-solving demonstrations, including:
  - Quizzes
  - Exams
3. Skill demonstrations, including:
  - Class performance(s)
  - Performance exam(s)
4. Objective examinations, including:
  - Multiple choice
  - True/false
  - Matching items
  - Completion
5. Other Category:
  - CLASS PARTICIPATION AND ATTENDANCE

**BASIS FOR GRADES:**

Writing Assignments:	0 - 35%
Problem Solving Demonstrations:	0 - 0%
Skill Demonstrations:	0 - 30%
Objective Examinations:	0 - 20%
Other Category:	<u>0 - 15%</u>
TOTAL	100%

**REPRESENTATIVE TEXTS:**

Sample Textbook: Hornburger and Manz. WELDING PROCESSES AND PRACTICES.

Sample Textbook: Koellhoffer, Manz, Hornburger. WELDING PROCESSES AND PRACTICES WORKBOOK.

**Submitted by:** RICHARD BREMEN

**Area Department:** WELDING

=====Instructional Office Use Only - Signatures and Codes=====

**Instructional Vice President Approval:** Mark Meadows

**Curriculum Committee Approval Date:** 1/10/90

**Revision Approval Date:** 04/25/08