Palo Verde College

COURSE OUTLINE

Palo Verde College
One College Drive, Blythe, CA 92225
(760) 921-5500

Latest Revision: 2/20/07

Board Approval: 3/27/07

1. **Course Information. Course Initiator: Joe Boire**

Subject Area and Course Number: **NBE 067**	Course Title: **Oxyacetylene Gas Welding**		
New Course ☐ Revised ☒ Updated ☒	Static ID **C06797**	TOP Code **0956.50**	Credit Status Request **Noncredit**
Classification Code **I=Occupational Education**	SAM Code **C=Clearly occupational**		Course prior to college level **Y=Not applicable**
Noncredit category **I=Short-term vocational**	Meets a unique need: Yes ☒ No ☐	Course duplicated: Yes ☐ No ☒	Demand/Enrollment Potential: Yes ☒ No ☐
Transfer request **C=Non-transferable**	Articulation request: UC ☐ CSU ☐ CSU-GE ☐ IGETC ☐ CAN ☐		

2. **Some or all aspects of this course may be delivered in a Distance Education mode: Yes ☐ No ☒**
   If checked yes, all questions pertaining to Distance Education must be answered.

3. **This course has laboratory or clinic/field hours: Yes ☒ No ☐**
   If checked yes, this outline must include a list of laboratory or clinic/field activities or topics.

4. **This course has prerequisites, co-requisites, or advisories: Yes ☐ No ☒**
   If checked yes, please complete a Prerequisite Justification Form .

5. **Curriculum Committee Approval Date: 3/8/07**

6. **After Curriculum Committee approval, the following is to be completed by the Office of Instruction:**

TRANSFER APPROVAL STATUS	ARTICULATION APPROVAL STATUS					
Approval Pending		**Not Requested**	**Date of Submission**	**Approval Pending**	**Approval Denied**	**Date Approved**
	UC	☐		☐	☐	
	CSU	☐		☐	☐	
	CSU-GE	☐		☐	☐	
	IGETC	☐		☐	☐	
	CAN	☐		☐	☐	

CATALOG DESCRIPTION:

This is an entry-level course which covers hands-on basic Oxacetylene fuel welding in all positions. Students will learn about the various types of equipment and the safety practices to be followed in performing the welding exercises. This course is repeatable.

UNITS:

FACE TO FACE: **Hours Per Week: Lecture: 10 Laboratory: 20 Clinic/Field:**

DISTANCE EDUCATION:

ENTRY LEVEL SKILLS, PRE-REQUISITES, CO-REQUISITES AND ADVISORIES:

None

OBJECTIVES and LEARNING OUTCOMES:

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

1. Explain the role safety plays in welding.
2. Describe what job site safety means.
3. Demonstrate the use and care of appropriate personal protective equipment.
4. Describe fire prevention and fire-fighting techniques.
5. Identify and explain the use of oxyfuel welding and cutting equipment.
6. Set up an oxyfuel system.
7. Light and adjust an oxyfuel welding torch and cutting torch.
8. Shut down an oxyfuel welding and cutting system.
9. Change empty cylinders.
10. Perform oxyfuel welding in all positions.
11. Perform oxyfuel cutting.

COURSE OUTLINE AND SCOPE:

1. Outline of Topics or Content:

1. Properly set up oxyfuel systems for welding and cutting.
2. Properly disassemble an oxyfuel welding and cutting system.
3. Perform straight line cutting and shape cutting.
4. Perform basic oxyfuel welding in the flat, horizontal, vertical and overhead positions.
5. Perform welds in the five basic joint designs: butt, lap, tee, corner and edge.

2. If a course contains laboratory or clinic/field hours, list activities or topics:

Safety rules and theory will be discussed and mastered prior to actual welding practice.

3. Examples of Reading Assignments:

See listed textbook information, instructor handouts

4. Examples of Writing Assignments:

Complete project worksheets.

5. Appropriate Assignments to be completed outside of class:

N/A

6. Appropriate Assignments that demonstrate critical thinking:

N/A

7. Other Assignments:

N/A

8. Indicate any assignments that are unique to the Distance Education mode of delivery:

N/A

METHOD OF EVALUATION—FACE TO FACE:

Class participation and attendance
Welding test plate examination

METHOD OF EVALUATION—DISTANCE EDUCATION:

N/A

METHOD OF INSTRUCTION—FACE TO FACE:

Lecture, visual aids, welding demonstrations.

METHOD OF INSTRUCTION—DISTANCE EDUCATION:

N/A

REPRESENTATIVE TEXTBOOKS, AND OTHER READING AND STUDY MATERIALS:
This section shall include author(s), title, and current publication date of all representative materials.

Textbook: Modern Welding; Althouse, Turnquist, Bowditch, Bowditch, and Bowoditch
Workbook: Modern Welding; Bowditch, Bowditch, and Bowoditch

SIGNATURES:

COURSE INITIATOR: _____ **DATE:** _____

LIBRARY: _____ **DATE:** _____

CHAIR OF CURRICULUM COMMITTEE: _____ **DATE:** _____

SUPERINTENDENT/PRESIDENT: _____ **DATE:** _____