

COURSE OUTLINE

Latest Revision: 2/26/07

Board Approval: 3/27/07

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

Subject Area and Course Number: NBE 095				Course Title: SHIELDED METAL ARC WELDING®							
New Course Revised X	Updated 🛚	Sta	•	C09597		ode 0956			t Status Request		
Classification Code I=Occupational Education		SAM C		ccupational				Cours	Course prior to college level Y=Not applicable		
Noncredit category		D-1 05.	31.01y C	Meets a unique need:		ourse du		D	emand/Enrollment Potentia		
I=Short-term vocational Fransfer request			A est	Yes ⊠ No □ iculation request:	Y	es 🗌	No 🛚	Y	es No 🗌		
E-Non-transferable				UC CSU CSU-GE					ETC CAN		
 This course has laborated if checked yes, this out This course has prerequif checked yes, please constitution. Curriculum Committee After Curriculum Committee 	line must inc uisites, co-re omplete a <u>Pr</u> e Approval D	clude a equisite rerequ Date: 3	es, or siste	of laboratory or clin advisories: Yes <u>Justification Form</u> .	No [\boxtimes		•	ction:		
TRANSFER APPROVAL STATUS				ARTICULATIO	ON APP	ROVAL	STATU	JS			
Approval Pending		Not Requested		Date of Submission		Approval Pending		oval ed	l Date Approved		
	UC										
	CSU-GE	<u> </u>	1								
	IGETC]								
	CAN		<u> </u>								
TALOG DESCRIPTION: s course is an entry-level, hatification and welding shop											
IITS:											
CE TO FACE:	Hours Per	. Week	: Lec	cture: 10 Labora	tory: 2	6 Clin	ic/Field:	į			
TANCE 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. Identify and explain shielded metal arc welding safety.
- 2. Identify and explain welding electrical currents.
- 3. Identify and explain arc welding machines.
- 5. Set up machine for welding.
- 6. Identify and explain tools for welding cleaning.

COURSE OUTLINE AND SCOPE:

1. Outline of Topics or Content:

- A. Set up macine for Shielded Metal Arc Welding.
- B. Starting an arc and running a bead.
- C. Produce acceptable welds in the flat, horizontal, vertical and overhead positions.
- D. Produce acceptable welds using E6011, E7024 and E7018 electrodes.

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:

COURSE OUTLINE TEMPLATE REV 10/28/03

Student Attendance and Participation. 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: