

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(Check all that apply)

COURSE NUMBER AND TITLE: AP DL 210 AWS Certification - Welding - Light Gage

UNIT VALUE: 1.5

MINIMUM NUMBER OF SEMESTER HOURS: 40

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

This course is designed to teach the practical skills needed for the arc welding processes and applications. Students will have the practical skills to successfully pass the AWS light gage certification. Related safety, codes and materials will be covered.

SPECIFIC COURSE OBJECTIVES:

Students will be able to:

1. Identify terms and nomenclature necessary to successfully complete certification for the AWS light gage welding.
2. Acquire the skills and knowledge to decipher code information.
3. Obtain a working knowledge of basic joints utilized throughout the Dry/Lathing framing industry.
4. Develop and properly demonstrate welding procedures for groove, file and plug welds as required.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Welding Symbols
 - A. Reference Line
 - B. Reading the Tail of the Symbol
 - C. Reading the Arrow

- II. Electrode Identification
 - A. Deep penetration Electrode rod, F-3 group
 - B. Low hydrogen Electrode rod, F-4 group

- III. Joint Welding for Certification
 - A. Butt welds
 - B. Fillet welds
 - C. Spot welds

REQUIRED READING:

AWS Structural Welding Committee. Structural Welding Code-Sheet Steel. Miami, Florida: America Welding Society, 1998.

Victor Equipment Company. Welding, Cutting & Heating Guide. Wichita, KS: Victor Equipment Company, 1992.

SUGGESTED READING: None

REQUIRED WRITING: Completion of written assignment in student's workbook, consisting of ten to twelve pages in length.

OUTSIDE ASSIGNMENTS: Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Students will read assigned text and work book assignments.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- Lecture-laboratory combination
- Directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified Instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

Class Participation	10%	A = 100-90
Quizzes	20%	B = 89-80
Lab/Shop Projects	20%	C = 79-70
Workbook	20%	F = Below 70
Final Exam	<u>30%</u>	
	100%	

IS COURSE REPEATABLE FOR REASON (S) OTHER THAN DEFICIENT GRADE?

Yes X No _____ Number of times course may be taken for credit: 2

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON: Director, Occupational and Noncredit Programs at Ext. 2286

SIGNATURES ON FILE