



MASTER COURSE OUTLINE

Prepared By: Shawn McDaniel

Date: August 2013

COURSE TITLE

Welding Process III

GENERAL COURSE INFORMATION

Dept.: WLD

Course Num: 131

(Formerly:)

CIP Code: 48.0508

Intent Code: 21

Program Code: 814

Credits: 3/6

Total Contact Hrs Per Qtr.: 66/132

Lecture Hrs:

Lab Hrs:66/132

Other Hrs:

Distribution Designation:

COURSE DESCRIPTION (as it will appear in the catalog)

Using E-7018 electrodes, students weld corner joints, groove plates in all positions and ASME and WABO performance certification tests. Students must complete all 6 credits of WLD 131 prior to enrolling in more advanced welding classes.

PREREQUISITES

6 credits of WLD 121

TEXTBOOK GUIDELINES

Text and materials as decided by welding faculty. (Example: *Modern Welding Technology* by Howard Cary)

COURSE LEARNING OUTCOMES

Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills.

1. Passing a variety of low-hydrogen tests, to a variety of codes.

INSTITUTIONAL OUTCOMES

COURSE CONTENT OUTLINE

At the completion of the course, the student will display the skills to perform the following:

1. Closed inside outside 90 degree corner, horizontal position with E7018 : 1/8" root, 5/32" fill on 3/4"x1 1/4"x8" plate or approved substitute material.
2. Closed inside outside corner joint, Vertical position
3. Closed inside outside corner joint, Overhead position
4. Plate, single V 30 degree bevel, with backing, horizontal position, on 3/4"x4"x8" plate or approved substitute material.
5. Plate, single V with backing, vertical position, on 3/4"x4"x8" plate
6. Plate, single V with backing, overhead position, on 3/4"x4"x8" plate
7. ASME 3/4" plate test 2G,3G,4G
8. Plate single V 22.5 degree, with backing, vertical position
9. Plate single V 22.5 degree, with backing, overhead position
10. WABO 3G,4G certification test (optional)

DEPARTMENTAL GUIDELINES *(optional)*

Grades will be calculated as follows:

50% Based on completing all course competencies.

50% Based on Lab Participation, Cleanup on a daily basis, and following ALL Safety rules.

The grade awarded for the class is as follows:

95-100	4.0	86	3.1	77	2.2	68	1.3
94	3.9	85	3.0	76	2.1	67	1.2
93	3.8	84	2.9	75	2.0	66	1.1
92	3.7	83	2.8	74	1.9	65	1.0
91	3.6	82	2.7	73	1.8	60-64	0.7
90	3.5	81	2.6	72	1.7	0-59	0
89	3.4	80	2.5	71	1.6		
88	3.3	79	2.4	70	1.5		
87	3.2	78	2.3	69	1.4		

DIVISION CHAIR APPROVAL

DATE