



MASTER COURSE OUTLINE

Prepared By: Shawn McDaniel

Date: August 2013

COURSE TITLE

Gas Tungsten Arc Welding III

GENERAL COURSE INFORMATION

Dept.: WLD

Course Num: 284

(Formerly:)

CIP Code: 48.0508

Intent Code: 21

Program Code: 814

Credits: 3

Total Contact Hrs Per Qtr.: 66

Lecture Hrs:

Lab Hrs:66

Other Hrs:

Distribution Designation:

COURSE DESCRIPTION (as it will appear in the catalog)

Students will gain advanced skills on carbon steel pipe in the 2G, 5G, 6G positions, carbon steel pipe with stainless steel rods, and stainless steel pipe in the 2G, 5G, and 6G positions.

PREREQUISITES

WLD 282 or instructor permission

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. The student will be able to weld code quality 2G, 5G, and 6G carbon steel pipe and introduce stainless steel pipe with purging, and consumable insert ring technique.

INSTITUTIONAL OUTCOMES

COURSE CONTENT OUTLINE

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

1. Carbon steel pipe with stainless steel wire 5G.
2. Carbon steel pipe with stainless steel wire 2G.
3. Carbon steel pipe with stainless steel wire 6G.
4. Carbon steel pipe combination with E-7018 5G.
5. Carbon steel pipe combination with E-7018 2G.
6. Carbon steel pipe combination with E-7018 6G.
7. Stainless steel pipe 6", 4" 5G.
8. Stainless steel pipe 6", 4" 2G.
9. Stainless steel pipe 6", 4" 6G.
10. GTAW and E-7018 combination ASME certification test.

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