

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

WLD 231 Pipe Welding 1

Course Description: A course on basic techniques associated with pipe welding operations. Topics include: pipe welding theory; pipe welding positions, layout, and preparation; and welding in the 2G and 5G positions with electrodes E6010 and E7018.

Prerequisites(s): WLD 111

Corequisite(s): No corequisite

Lecture Hours: 2	Lab Hours: 6	Credit Hours: 4
Lab Fee: \$300	Supplemental Fee: \$50	Purpose: Raw Materials
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)	<input type="checkbox"/> Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: <input type="checkbox"/> Web	<input type="checkbox"/> Hybrid	x Classroom
Semesters Offered: x Fall	x Spring	x Summer

Course Primary Text:

Title: Welding Principles and Applications	Edition: 9th
Author(s): Jeffus	
Publisher: Delmar	

Supplemental Materials:

Instructor supplied

Course Outcomes:

1	Students will have understand and use safety practices in all welding techniques
2	Students will have the ability to read and understand welding blueprints.
3	Students will have the ability to weld pipe.

Course Topics:

Week	Chapter	Topic	Lab/Project
1	5	Shielded Metal Arc Welding of Pipe	
2	5	Shielded Metal Arc Welding of Pipe	
3	5	Shielded Metal Arc Welding of Pipe	Lab #1
4	5	Shielded Metal Arc Welding of Pipe	Lab #2
5	6	Shielded Metal Arc Welding AWS SENSE Certification	Lab #3
6	6	Shielded Metal Arc Welding AWS SENSE Certification	Lab #4

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7	6	Shielded Metal Arc Welding AWS SENSE Certification	<i>Lab #5</i>
8	18	GTAW Arc Welding of Pipe	<i>Lab #6</i>
9	18	GTAW Arc Welding of Pipe	<i>Lab #7</i>
10	18	GTAW Arc Welding of Pipe	<i>Lab #8</i>
11	19	GTAW Arc Welding of Pipe AWS SENSE Certification	<i>Lab #9</i>
12	19	GTAW Arc Welding of Pipe AWS SENSE Certification	<i>Lab #10</i>
13	19	GTAW Arc Welding of Pipe AWS SENSE Certification	<i>Lab #11</i>
14	19	GTAW Arc Welding of Pipe AWS SENSE Certification	<i>Lab #12</i>
15	19	GTAW Arc Welding of Pipe AWS SENSE Certification	<i>Lab #13</i>

Methods of Evaluation/Assessment

Grading:

Labs & Weld Certifications – 70%

Chapter Written Exams – 20%

Attendance & Housekeeping – 10%

Course Keeper: Mark Willis

Date Completed: 12/15/18