

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

WLD 112 SMAW 2

Course Description: A continuation of WLD 111 covering techniques and operations associated with Shielded Metal Arc Welding (SMAW). Topics include all-positions open V-groove welds on plate, and fillet welds.

Prerequisites(s): WLD 100

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 create structurally sound and visually correct welds using the SMAW process

Course Topics:

Week	Chapter	Topic	Lab/Project
1	3	Shielded Metal Arc Equipment, Setup, and Operation	Lab #1
2	3	Shielded Metal Arc Equipment, Setup, and Operation	Lab #2
3	3	Shielded Metal Arc Equipment, Setup, and Operation	Lab #3
4	4	Shielded Metal Arc Welding of Plate	Lab #4
5	4	Shielded Metal Arc Welding of Plate	Lab #5
6	4	Shielded Metal Arc Welding of Plate	Lab #6

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7	4	Shielded Metal Arc Welding of Plate	<i>Lab #7</i>
8	4	Shielded Metal Arc Welding of Plate	<i>Lab #8</i>
9	6	Advanced Shielded Metal Arc Welding	<i>Lab #9</i>
10	6	Advanced Shielded Metal Arc Welding	<i>Lab #10</i>
11	6	Advanced Shielded Metal Arc Welding	<i>Lab #11</i>
12	7	Filler Metal Selection	<i>Lab #12</i>
13	7	Filler Metal Selection	<i>Lab #13</i>
14	7	Filler Metal Selection	<i>Lab #14</i>
15	7	Filler Metal Selection	<i>Lab #15</i>

Methods of Evaluation/Assessment

Grading:

AWS Written Exams – 20%

Chapter Written Exams – 20%

Lab Assignments – 60%

Course Keeper: Mark Willis

Date Completed: 12/15/18