

2/27/2023

☒ REQUIRED COURSE
☐ ELECTIVE COURSE

DATE

☐ NEW COURSE
☒ REVISION

DOC
DIVISION

Lake Land College

Course Information Form

COURSE NUMBER:	WEL-059		TITLE: (30 Characters Max)		Gas Metal Arc Welding II						
SEM CR HRS:	3	Lecture:	0.5		Lab:	5			ECH:	5.5	
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/ Not in Degree Audit		Clinical Practicum:	0	Work-based Learning:	0	WBL ECH:	0	
COURSE PCS #	12.480508		IAI Code		Contact Hours (Minutes/Week)						
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	275	8 Wks	550
Prerequisites:	WEL-057 and WEL-058										
Corequisites:	None										
Catalog Description: (40 Word Limit)	This course teaches students to perform gas metal arc welds in the horizontal, vertical and overhead positions using single and multiple pass welds.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Horizontal Single Pass	1	10		
Horizontal Multiple Pass	1.5	15		
Vertical Single Pass	1	10		
Vertical Multiple Pass	1.5	15		
Overhead Single Pass	1	10		
Overhead Multiple Pass	1.5	15		
TOTAL	7.5	75	0	0

EVALUTION			
QUIZZES <input type="checkbox"/>	EXAMS <input checked="" type="checkbox"/>	ORAL PRES <input type="checkbox"/>	PAPERS <input type="checkbox"/>
LAB WORK <input checked="" type="checkbox"/>	PROJECTS <input checked="" type="checkbox"/>	COMP FINAL <input type="checkbox"/>	OTHER <input type="checkbox"/>

COURSE MATERIALS	
TITLE:	Gas Metal Arc Welding Handbook
AUTHOR:	William H. Minnick
PUBLISHER:	Goodheart-Wilcox Company Inc.
VOLUME/EDITION/URL:	5th edition
COPYRIGHT DATE:	2008

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Horizontal Single Pass	11	Identify and complete GMAW beads in the horizontal position with single pass for square butt, lap and "T" welds.
Horizontal Multiple Pass	16.5	Identify and complete GMAW beads in the horizontal position with multiple passes for butt, lap, and "T" welds.
Vertical Single Pass	11	Identify and complete GMAW beads in the vertical up position with single pass for square butt, lap and "T" welds.
Vertical Multiple Pass	16.5	Identify and complete GMAW beads in the vertical up position with multiple passes for butt, lap, and "T" welds.
Overhead Single Pass	11	Identify and complete GMAW beads in the overhead position with single pass on a "T" weld.
Overhead Multiple Pass	16.5	Identify and complete GMAW beads in the overhead position with multiple passes on a "T" weld.
	82.5	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
Demonstrate GMAW beads in the horizontal position with multiple passes for butt, lap, and "T" welds.	
Demonstrate GMAW beads in the vertical up position with multiple passes for butt, lap, and "T" welds.	
Demonstrate GMAW beads in the overhead position with multiple passes for butt, lap, and "T" welds.	

** Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.*