3/1/2023 DATE

☑ REQUIRED COURSE

☐ ELECTIVE COURSE

DOC DIVISION

☐ NEW COURSE

☑ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	WEL-060		TITLE: *(30 Characters Max)*	Gas Metal Metal Arc Welding III						ECH:	5.5
SEM CR HRS:	3	Lecture:	0.5	Lab:	5						
Course Level:	☐ Gen Ed / IAI ☐ Baccalaureate /Non-IAI	☑ Career/Technical ☐ 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 Per 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-059										
Corequisites:	None										
Catalog Description: (40 Word Limit)	Students in this course must prepare gas metal arc and flux core welds which pass guided bend tests.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
GMAW Weld on V Groove Plate Flat	0.5	5		
GMAW Weld on V Groove Plate Horizontal	1.5	15		
GMAW Weld on V Groove Plate Vertical	1.5	15		
FCAW Weld on V Groove Plate Flat	1	10		
FCAW Weld on V Groove Plate Horizontal	1.5	15		
FCAW Weld on V Groove Plate Vertical	1.5	15		
TOTAL	7.5	75	0	0

EVALUTION							
QUIZZES	☐	EXAMS	☑	ORAL PRES	☐	PAPERS	☐
LAB WORK	☑	PROJECTS	☑	COMP FINAL	☐	OTHER	☐

COURSE MATERIALS		
TITLE:	Welding: Principles and Applications	
AUTHOR:	Larry Jeffus	
PUBLISHER:	Cengage Learning	
VOLUME/EDITION/URL:	8th	
COPYRIGHT DATE:	2017	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
GMAW Weld on V Groove Plate Flat Position	5.5	Identify and complete acceptable GMAW weld on V-groove plates in the flat position with multiple passes and perform guided bend test.
GMAW Weld on V Groove Plate Horizontal Position	16.5	Identify and complete acceptable GMAW weld on v-groove plates in the horizontal position with multiple passes and perform guided bend test.
GMAW Weld on V Groove Plate Vertical Position	16.5	Identify and complete acceptable GMAW weld on V-groove plates in the vertical position with multiple passes and perform a guided bend test.
FCAW Weld on V Groove Plate Flat Position	11	Identify and complete FCAW weld on v-groove plates in the flat position with multiple passes and perform guided bend test.
FCAW Weld on V Groove Plate Horizontal Position	16.5	Identify and complete acceptable FCAW weld on v-groove plates in the horizontal position with multiple passes and perform guided bend test.

FCAW Weld on V Groove Plate Vertical Position	16.5	Identify and complete acceptable FCAW weld on v-groove plates in the vertical position with multiple passes and perform guided bend test.
	82.5	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
Demonstrate acceptable GMAW weld on V-groove plates in the flat position with multiple passes and perform guided bend test.	
Demonstrate acceptable GMAW weld on V-groove plates in the horizontal position with multiple passes and perform guided bend test.	
Demonstrate acceptable GMAW weld on V-groove plates in the vertical position with multiple passes and perform guided bend test.	
Demonstrate acceptable FCAW weld on v-groove plates in the flat position with multiple passes and perform guided bend test.	
Demonstrate acceptable FCAW weld on v-groove plates in the horizontal position with multiple passes and perform guided bend test.	
Demonstrate acceptable FCAW weld on v-groove plates in the vertical position with multiple passes and perform guided bend test.	

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