2/27/2023	DATE
✓	REQUIRED COURSE
	ELECTIVE COURSE

DOC	DIVISION
	☐ NEW COURSE
	✓ REVISION

Lake Land College Course Information Form

COURSE NUMBER:		WEL-048		TITLE: (30 Characters Max,)	Shielded	Metal Arc	: Welding	II			
SEM CR HRS:	3	Lecture:		0.5		Lab:	5				ECH:	5.5
Course Level:	_		Career/Technical Dev Ed/ Not in Degree Audit Cli		Clir	nical Practicum:	0	Work-based Learning:		0	WBL ECH:	0
COURSE PCS #		12.480508	12.480508 IAI Code						Con	tact Hours	(Minutes/W	eek)
Repeatable (Y/N):	Ν	Pass/Fail (Y/N):	Z	Variable Credit (Y/N):	Ν	Min:	Max:		16 Wks	275	8 Wks	550
Prerequisites:		WEL-057 and WEL-047										
Corequisites:		lone										
Catalog Description: (40 W Limit)	ord	n this course, students learn to perform single and multiple pass welds with shielded metal arc welding equipment in all positions.										

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	EXAMS ☑	ORAL PRES	PAPERS
LAB WORK 🗹	PROJECTS ☑	COMP FINAL	OTHER

	COURSE MATERIALS	
TITLE:	Welding Skills	
AUTHOR:	B. J. Moniz	
PUBLISHER:	American Technical Publishers	
VOLUME/EDITION/URL:	5th	
COPYRIGHT DATE:	2015	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES			
		The student will be able to:			
Horizontal Single Pass	11	Identify and complete acceptable SMAW beads in the horizontal position using a single pass on square butt, lap, and "T" welds with E6010 or E6011 rod on steel plate.			
Horizontal Multiple Pass	16.5	Identify and complete acceptable SMAW beads in the horizontal position using multiple passes for square butt, lap, and "T" welds with E6010 and E6011 rod on steel plate.			
Vertical Single Pass	11	Identify and complete acceptable SMAW beads in the vertical up position using a single pass on square butt, lap, and "T" welds with E7018 rod on steel plate.			
Vertical Multiple Pass	16.5	Identify and complete acceptable SMAW beads in the vertical up position using multiple passes for square butt, lap and 'T" welds with E7018 rod on steel plate.			
Overhead Single Pass	11	Identify and complete acceptable SMAW beads in the overhead position using single pass for square butt, lap, and "T" welds with E7018 rod on steel plate.			
Overhead Multiple Pass	16.5	Identify and complete acceptable SMAW beads in the overhead position using multiple passes for square butt, lap, and "T" welds using E7018 rod on steel plate.			
	82.5				

COURSE OUTCOMES* At the successful completion of this course, students will be able to:

Demonstrate SMAW beads in the horizontal position on steel plate.
Demonstrate SMAW beads in the vertical up position on steel plate.
Demonstrate SMAW beads in the overhead position on steel plate.
Pass visual and bend test of vertical up v-groove weld on steel plate.

 $[\]mbox{^{*}}$ Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.