2/27/2023 ☑		JIRED	O COURSE COURSE							D0		DIVISIOI NEW CO	DURSE	
				L	ake Land Col	_	je							
COURSE NUMBER:		WEI	L-055		TITLE: (30 Characters		Pipefittir	ıg & Weldi	ng					
SEM CR HRS:	3	3	Lecture:		1		Lab:	4				ECH:	5	
Course Level					reer/Technical		nical Practicum:	0	Work-based 0			WBL	0	
COURSE PCS #	\vdash	Bacca	alaureate /Non-IAI Dev 12.480508	v Ed/	Not in Degree Audit IAI Code			Ů	Lear	ning:	tact Hours	ECH:		
Repeatable (Y/N):	Y		Pass/Fail (Y/N):	ΙN	Variable Credit (Y/N):	ΙN	Min:	Max:		16 Wks	250	8 Wks	500	
Prerequisites:		WEI	L-057 and WEL-048		, ,									
Corequisites:		Non	ne											
Catalog Description: (40 \ Limit)	Word	This	is a basic course in pipefitting out and welding techniques/app			ety. To	ppics include: fabri	cation and	installati	on of indu	ıstrial pipi	ng syster	ms, pipe	
List the Major Course Segments (U				Jnits)			Contact Lecture Hours	Contact Lab Hours		Clinical Practicum		Work-based Learning		
Flanges							1	1						
Gaskets Pipe Welding Nomenclatur	e						3	2						
Pipe Layout & Preparation							2	3						
Pipe Joint Assembly							2		3					
Horizontal Welds on Pipe Vertical Welds on Pipe							2	15 15				<u> </u>		
Welds on 45 Degree Angle	Pipe						2	20						
					Ţ	OTAL	. 15	60)	()		0	
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OI	IIZZES	:1.7	EXAMS	1.7	EVALUTION	OF	RAL PRES				DADEDO			
QUIZZES EXAMS LAB WORK PROJECTS							MP FINAL 🗹			PAPERS OTHER				
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		ITI C.	Pipe Welding		COURSE MATERIA	LS								
			Larry Jeffus, Bryan Baker											
	UBLIS	HER:	Cengage Learning											
VOLUME/EDI COPYRIO														
COLLINA	3111 0	A 1 L .	2017											
MAJOR COURSE SEGMENT				HOURS			LEARNING OUTCOMES							
							The student will be able to:							
Flanges				2				Identify common types of flange faces. Discuss flange safety practices.						
Gaskets					3				Conclude the type of gasket to use and demonstrate proper installation techniques.					
Pipe Welding Nomenclature					4				Identify the four positions (1G, 2G, 5G, and 6G) defined by the ASME code.					
Pipe Layout & Preparation				5				Demonstrate layout and preparation of pipe nipples with the included angle and root face to meet ASME specifications.						
Pipe Joint Assembly				5			Demonstrate assembly of pipe workpiece with proper alignment, root opening, and feathered tack welds.							
Horizontal Welds on Pipe					17			Demonstrate welding a pipe nipple assembly in the 2G position using E6010 for the root pass and E7018 for the fill and cap passes, to meet ASME specifications.						
Vertical Welds on Pipe					17			Demonstrate welding a pipe nipple assembly in the 5G position using E6010 for the root pass and E7018 for the fill and cap passes, to meet ASME specifications.						
Welds on 45 Degree Angle Pipe				22				Demonstrate welding a pipe nipple assembly in the 6G position using E6010 for the root pass and E7018 for the fill and cap passes, to meet ASME specifications.						

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:								
Demonstrate welding a pipe nipple assembly in the 2G position using E6010 for the root pass and E7018 for the fill and cover passes.									
Demonstrate welding a pipe nipple assembly in the 5G position using E6010 for the root pass and E7018 for the fill and cover passes.									
Demonstrate welding a pipe nipple assembly in the 6G position using E6010 for the root pass and E7018 for the fill and cover passes.									

 $[\]star$ Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.