5/6/2025 ☑		IRED COURSE TIVE COURSE								TEC	DIVISION NEW CO REVISIO	DURSE
			L	ake Land Co	lle	ge						
Course Information Form												
COURSE NUMBER:		WLD-072		TITLE (30 Characters	Max):	GTAW	/Stainless	Steel				
SEM CR HRS:	3.0	Lecture:		1.5		Lab:	3.0	ICCE	B Lab:	3.0	ECH:	4.5
			Car	eer/Technical		Clinical		Work	-based		WBL	
Course Level:		Baccalaureate /Non-IAI	Dev	Ed/ Not in Degree Audit		Practicum:	0.0	Lear	ning:	0.0	ECH:	0.0
Course PCS & CIP:		12 - 48.0508		IAI Code		ı	√A	А		Contact Hours (Minutes/Week)		
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:		16 Wks	225	8 Wks	450
Prerequisites:		WLD-040 or WLDC-040, WLD)-041	or WLDC-041 and WLD-07	1 or \	WLDC-071						
Corequisites:		None										
Catalog Description: (40 Word Limit)		This course introduces studen			ng eq	uipment and pro		na are re		r welding	·	s steel.
List the Major Course Segments (Units)						Lecture Hours					ning	
GTAW safety procedures, set up and maintenance					3	5						
Each position is demonstrated with butt, lap and tee joints on stainless steel:						1						
Flat					4	8 9						
Horizontal Vertical					5	10						
Overhead					5	10						
Perform destructive examination of welds						1.5	3					
					DTAL	. 22.5	4	5	()	()
				EVALUATION								
QUIZZES 🗹 EXAMS 🖸 OR						AL PRES PAPERS						
LAB WORK PROJECTS PROJECTS				COMP FINAL 🗹				OTHER				
				COURSE MATERIA	ALS							
	TI	TLE: Welding Principles and P	ractio	es								
		OR: Edward Bohnart										
PUBLISHER: MCGraw/Hill VOLUME/EDITION/URL: 6th Edition												
		ATE: 2024										
MAJOR	OUR	SE SEGMENT		HOUR	S			LFAR	NING (OUTC	OMES	
III I I I I				1,500	_		The stu		be able		_ 0	
GTAW safety procedures, set up and maintenance				8			I. Identify and follow GTAW Safety practices. Set up and perform safety inspections of GTAW equipment and accessories.					
GTAW beads flat position				12			1. Identify and demonstrate GTAW fillet and groove welds in the 1G position.					

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GTAW beads horizontal position

GTAW beads vertical position

GTAW beads, overhead position

1. Identify and demonstrate GTAW fillet and groove welds in the 2G position.

1. Identify and demonstrate GTAW fillet and groove welds in the 3G position.

1. Identify and demonstrate GTAW fillet and groove welds in the 4G position.

GTAW welder performance qualification test	4.5	1. Perform guided bend test. 2. Pass qualification test. 3. Examine cut surfaces and edges of prepared base metal parts. 4. Examine tacks, root passes, intermediate layers and completed welds.
	67.5	

Outcomes*	At the successful completion of this course, students will be able to:
Course Outcome 1	Demonstrate GTAW beads in the flat position on ferrous metal for butt, lap, and "T" welds.
Course Outcome 2	Demonstrate GTAW beads in the horizontal position on ferrous metal for butt, lap, and "T" welds.
Course Outcome 3	Demonstrate GTAW beads in the vertical position on ferrous metalfor butt, lap, and "T" welds.
Course Outcome 4	Demonstrate GTAW beads in the overhead position on ferrous metal for butt, lap, and "T" welds.
Primary Laker Learning	
Competency	Scientific Literacy: Students apply the scientific process to real-life situations.
Secondary Laker	
Learning Competency	Critical Thinking: Students connect knowledge from various disciplines to formulate logical conclusions.

^{*}Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency. Limit to 3-5.