4/14/2025 □		IRED COURSE TIVE COURSE								TEC	DIVISION NEW CO REVISIO	DURSE
			l	Lake Land Co		_						
COURSE NUMBER:		WLD-070		TITLE: (30 Characters			ngsten Ar	c Weldin	q			
SEM CR HRS:	2.5	Lecture:		0.5		Lab:	4.0		Lab:	4.0	ECH:	4.5
Course Level:		Gen Ed / IAI		reer/Technical VEd/ Not in Degree Audit		Clinical Practicum:	0.0		based	0.0	WBL ECH:	0.0
Course PCS & CIP: 12 - 48.0508				IAI Code		 /A	Leai		Contact Hours (Minutes/We		Veek)	
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 and	WLD-	041 or WLDC-041				l .				
Corequisites:		None										
Catalog Description: (40 Word Limit))	This course introduces stud vertical positions on both fe			ing eq	uipment and prod	cedures. \	Welds are	e prepare	d in flat,	horizonta	al and
List the Major Course Segments				i (Units)		Contact Lecture Hours			Clinical Practicum		Work-based Learning	
GTAW safety procedures, set up and maintenance						4.5 1.5	1 10					
GTAW beads flat position ferrous metal GTAW horizontal position ferrous metal				1.5		11						
GTAW vertical position fe	errous n	netal				1.5	11					
GTAW flat position non-fo						1.5		0				
GTAW horizontal position non-ferrous metal GTAW vertical position non-ferrous metal						1.5 1.5		2				
C17 W Vertical position in	OII ICII	ous metal		Т	OTAL	13.5		7	()	(0
OII	IIZZEC	✓ EXAM	4C 🗔	EVALUATION		AL PRES						
						P FINAL 🗸			PAPERS OTHER			
				COURSE MATERI	ALS							
		TLE: Welding Principles and	Praction	ces								
AUTHOR: Edward Bohnart PUBLISHER: MCGraw/Hill												
VOLUME/EDITION/URL: 6th Edition												
COPYRIG	HT DA	ATE: 2024										
MA IOD C	CLID	SE SEGMENT		HOUR	c			IFAD	NING	OUTC	ONATC	
MAJOR C	OUK	SE SEGMENT		HOUR	5		The stu				OME2	
GTAW safety procedures, set up and maintenance				10.5		The student will be able to: 1. Identify and follow GTAW Safety practices. 2. Set up and perform safety inspections of GTAW equipment and accessories.						
GTAW beads flat position on ferrous metals				16.5		Identify and demonstrate GTAW fillet and groove welds in the 1G position.						
GTAW beads horizontal position on ferrous metals				16.5		Identify and demonstrate GTAW fillet and groove welds in the 2G position.						
GTAW beads vertical position on ferrous metals				16.5		Identify and demonstrate GTAW fillet and groove welds in the 3G position.						
GTAW welder performance qualification test				20.5		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.						

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 metal for butt, lap and "T" welds.						
Course Outcome 4	Demonstrate GTAW beads in the flat, horizontal, and vertical position on non-ferrous metal for butt, lap and "T" welds.						
Primary Laker Learning Competency	Creative Thinking & Problem Solving: Students think creatively to solve problems.						
Secondary Laker Learning Competency	Information & Technology Literacy: Students evaluate information effectively using the appropriate technological tools.						

^{*}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.