

9/12/2023

DATE

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REQUIRED COURSE

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ELECTIVE COURSE

DOC DIVISION

☐ NEW COURSE☒ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	WEL-062		TITLE: (30 Characters Max)		Welding Blueprint Reading and Layout						
SEM CR HRS:	3	Lecture:	0.5		Lab:	5	Work-based Learning:		0	ECH:	5.5
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/ Not in Degree Audit		Clinical Practicum:	0			0	WBL ECH:	0
COURSE PCS #	12 - 48.0508		IAI Code				Contact Hours (Minutes/Week)				
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	275	8 wks	550
Prerequisites:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	This course teaches students to read and interpret welding symbols and blueprints and to perform a minor welding layout. Math skills especially fractions are emphasized, reviewed and reinforced throughout this course.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Math Review	1.5	10		
Welding Symbols	1	10		
Structural Shapes and Metals	1	5		
Bill of Materials	1	5		
Interpretation of Blueprint	1	15		
Metal Selection		5		
Layout of Tools	1	5		
Layouts	1	20		
TOTAL	7.5	75	0	0

EVALUATION			
QUIZZES <input checked="" type="checkbox"/>	EXAMS <input checked="" type="checkbox"/>	ORAL PRES <input type="checkbox"/>	PAPERS <input type="checkbox"/>
LAB WORK <input checked="" type="checkbox"/>	PROJECTS <input checked="" type="checkbox"/>	COMP FINAL <input type="checkbox"/>	OTHER <input type="checkbox"/>

COURSE MATERIALS	
TITLE:	Blueprint Reading for Welders
AUTHOR:	A.E. Bennett; Louis J. Siy
PUBLISHER:	Delmar Publishers, Inc.
VOLUME/EDITION/URL:	9th
COPYRIGHT DATE:	2015

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Math Review	11.5	Demonstrate math skills with an emphasis on fractions.
Welding Symbols	11	Read and interpret welding symbols.
Structural Shapes of Metals	6	Identify structural shapes of various metals.
Bill of Materials	6	Prepare a bill of materials.
Interpretation of Blueprint	16	Interpret shop drawings, blueprints and verbal instructions for welding projects.
Metal Selection	5	Select proper metals from bill of materials.
Layout of Tools	6	Identify, select and use proper layout tools.
Layouts	21	Perform minor layouts from blueprints.

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
Read and interpret welding symbols.	
Identify structural shapes of various metals.	
Perform minor layouts from blueprints.	

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