2/14/2025	DATE	TEC	DIVISION
☑	REQUIRED COURSE	☐	NEW COURSE
☑	ELECTIVE COURSE	☑	REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	TEC-040		TITLE: *(30 Characters Max)*		Print Reading for Industry					
SEM CR HRS:	2	Lecture:	2		Lab:	0			ECH:	2
Course Level:	☐ Gen Ed / IAI ☐ Baccalaureate /Non-IAI	☑ Career/Technical ☐ Dev Ed/ Not in Degree Audit		Clinical Practicum:		0	Work-based Learning:	0	WBL ECH:	0
COURSE PCS #	12 - 15.1301		IAI Code		N/A		Contact Hours (Minutes/Week)			
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	100	8 wks 200
Prerequisites:	None									
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Catalog Description: (40 Word Limit)	Print Reading for Industry is a training course designed to assist the beginning to intermediate students, as well as workers in the industry, to understand the fundamentals, principles and practices involved in producing and reading industrial blueprints.									

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Introduction	1			
Drafting and blueprint procedures	14			
Title block, materials list and notes	4			
Machining specifications and call outs	7			
Reading specialized prints	6			
TOTAL	32	0	0	0

EVALUATION			
QUIZZES ☑	EXAMS ☑	ORAL PRES ☐	PAPERS ☑
LAB WORK ☐	PROJECTS ☐	COMP FINAL ☐	OTHER ☐

COURSE MATERIALS		
TITLE:	Blueprint Reading for Industry	
AUTHOR:	W.C. Brown	
PUBLISHER:	Goodheart-Willcox	
VOLUME/EDITION/URL:	11th	
COPYRIGHT DATE:	2022	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Introduction	1	1. Use outlines as discernible shapes of solids. 2. Draw sharp, clear, dark uniform lines, letter 1/8" tall vertical upper case.
Drafting and blueprint reading procedures	14	1. Use standard location of orthographic views to fill in missing lines and locate points and planes. 2. Interpret numbers as dimensions. 3. Use standard names of lines. 4. Interpret auxiliary, sectional and pictorial views. 5. Differentiate between detail and assembly drawings. 6. Interpret thread specifications and machine process call outs.
Title block, material lists, and notes	4	1. Interpret drawing numbers and sizes; use tolerances. 2. Translate "notes" on drawings. 3. Conceptualize the make-up of material and parts lists.
Machining specifications and call outs	7	1. Read blueprints regarding gears, NC, welding and instrumentation and control, according to area of study.
Reading specialized blueprints	6	1. Continue the above specialized activities plus general advanced blueprints.
	32	

Outcomes*	At the successful completion of this course, students will be able to:
Course Outcome 1	Summarize the terms and the role of industrial prints.
Course Outcome 2	Demonstrate different views used in blueprints.
Course Outcome 3	Demonstrate different tolerances and interpretation techniques used in industry.
Primary Laker Learning Competency	Communication: Students communicate effectively and appropriately through the exchange of information.
Secondary Laker Learning Competency	Scientific Literacy: Students identify foundational science concepts and apply the scientific process to real-life situations.

**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.*