

4/14/2025

DATE



REQUIRED COURSE



ELECTIVE COURSE

TEC DIVISION



NEW COURSE



REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	IND-062	TITLE: (30 Characters Max)	Rigging and Hoisting								
SEM CR HRS:	1.0	Lecture:	1.0	Lab:	0.0	ICCB Lab:	0.0	ECH:	1.0		
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Baccalaureate /Non-IAI <input type="checkbox"/> Dev Ed/ Not in Degree Audit			Clinical Practicum:	0.0	Work-based Learning:	0.0	WBL ECH:	0.0		
COURSE PCS #	12 - 47.0501		IAI Code:	N/A			Contact Hours (Minutes/Week)				
Repeatable (Y/N):	Y	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	50	8 Wks	100
Prerequisites:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	This course is designed to provide a basic understanding of hoisting and rigging equipment. Safety regulations will be discussed along with the determination of safe working loads and proper care of equipment. (Repeatable 3 Times)										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Ropes	3			
Wire rope, alloy steel and chains	3			
Synthetic slings	3			
Lifting accessories	3			
Hoists	3			
TOTAL	15	0	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 type="checkbox"/>	PROJECTS <input type="checkbox"/>	COMP FINAL <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

COURSE MATERIALS

TITLE:	Rigging Series 818
AUTHOR:	Schoolcraft Publishing
PUBLISHER:	Schoolcraft Publishing
VOLUME/EDITION/URL:	4th edition
COPYRIGHT DATE:	2001

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Ropes	3	1. Classify natural and synthetic rope according to its respective strength. 2. Describe proper use and care of fiber rope. 3. Rate the capacity and describe how to inspect a rope used for lifting.
Wire rope, alloy steel and chains	3	1. Discuss OSHA regulations concerning rigging of equipment for material handling. 2. Identify wire rope materials and construction. 3. Calculate working load.
Synthetic slings	3	1. Identify the different types of synthetic slings. 2. Examine wear indicators and inspect rigging equipment for safe operation.
Lifting accessories	3	1. Identify and inspect eyebolts, hoist rings, shackles, wire rope clips and turnbuckles.
Hoists	3	1. Summarize safe operation of hoists and chain falls.
	15	

Outcomes*

At the successful completion of this course, students will be able to:

Course Outcome 1	Determine how to inspect a rope used for lifting properly.
Course Outcome 2	Name wire rope materials and construction successfully.
Course Outcome 3	Demonstrate proper synthetic sling wear indicators and inspect rigging equipment for safe operation.
Course Outcome 3	Examine and inspect eyebolts, hoist rings, shackles, wire rope clips and turnbuckles.
Primary Laker Learning Competency	Critical Thinking: Students connect knowledge from various disciplines to formulate logical conclusions.
Secondary Laker Learning Competency	Communication: Students communicate effectively and appropriately through the exchange of information.

**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.*