

2/16/2023 DATE



REQUIRED COURSE



ELECTIVE COURSE

Technology

DIVISION

☐ NEW COURSE☒ REVISION

## Lake Land College

## Course Information Form

COURSE NUMBER:	CET-024	TITLE: (30 Characters Max)		Level II Portland Cement Concrete						
SEM CR HRS:	1	Lecture:	1	Lab:	0	SOE/ Internship:	0	ECH:	1	
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI		<input type="checkbox"/> Career/Technical <input checked="" type="checkbox"/> Dev Ed/ Not in Degree Audit	Clinical Practicum:	0	SOE/ Internship:	0	SOE ECH:	0	
COURSE PCS #	16 - 46.0403		IAI Code			Contact Hours (Minutes Per Week)				
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	Min:	Max:	16 Wks	50	8 wks	100
Prerequisites:	CET-020									
Catalog Description: (40 Word Limit)	An advanced course covering proportioning of P.C.C. for I.D.O.T. QC/QA projects.									

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
Volumetric Mix Design	2			
Mix Adjustments	2			
Hot Weather/Cold Weather Effects	1			
I.D.O.T. Standard Specifications	2			
I.D.O.T. QC/QA Special Provision	2			
Plant Operation and Control	2			
Records and Documentation	2			
Exam	2			
<b>TOTAL</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>

## EVALUATION

QUIZZES	<input 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 type="checkbox"/>	OTHER	<input type="checkbox"/>

## COURSE MATERIALS

TITLE:	I.D.O.T. PCC Level II Technician Manual
AUTHOR:	I.D.O.T.
PUBLISHER:	
VOLUME/EDITION/URL:	
COPYRIGHT DATE:	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Mix Design and Adjustment	4	Design and adjust a P.C.C. mix
Effects of Weather	1	Make adjustments based on weather.
IDOT Standard Specifications and Special Provisions	4	Apply the specifications to QC/QA jobs
Plant Operations	2	Understand the functions of P.C.C. production
Records & Documentation	2	Complete required paperwork for QC/QA P.C.C. projects.
Final Exam	2	Pass the exam and be qualified to monitor P.C.C. quality on an I.D.O.T. QC/QA project.
	<b>15</b>	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	<ul style="list-style-type: none"> <li>List the applicable IDOT specifications and special provisions that pertain to QC/QA Inspectors, which apply to Portland Cement Concrete production.</li> </ul>
	<ul style="list-style-type: none"> <li>Summarize how to proportion, adjust mixes, and make adjustments based on the effects of weather.</li> </ul>
	<ul style="list-style-type: none"> <li>Discuss measures used for plant operation and control of a Portland Cement Concrete plant.</li> </ul>
	<ul style="list-style-type: none"> <li>Demonstrate how to complete the required calculations and paperwork for QC/QA Portland Cement Concrete projects.</li> </ul>

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