2/20/2023 DATE
☐ REQUIRED COURSE
☐ ELECTIVE COURSE

Technology DIVISION
☐ NEW COURSE
☑ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	CET-030			TITLE: *(30 Characters Max)*			Level I Portland Cement Concrete						
SEM CR HRS:	1.5	Lecture:		1.5		Lab:	0				ECH:	1.5	
Course Level:	☐ Gen Ed / IAI ☐ Baccalaureate /Non-IAI		☐ Career/Technical ☐ 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	75	8 wks	150
Prerequisites:	NONE												
Catalog Description: (40 Word Limit)	A three day course covering testing requirements and IDOT specifications pertaining to PCC concrete mixtures. Successful completion will for allow plant and field testing of PCC on IDOT QC/QA projects. Participants will also receive an ACI Level I Field certification.												

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
QC/QA Principles and Specifications for PCC	4			
General PCC practices	4.5			
Testing of PCC using ASTM methods	14			
TOTAL	22.5	0	0	0

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

COURSE MATERIALS		
TITLE:	I.D.O.T Portland Cement Concrete Level I ACI Manual (furnished by ACI)	
AUTHOR:	I.D.O.T. ACI	
PUBLISHER:	N/A	
VOLUME/EDITION/URL:	N/A	
COPYRIGHT DATE:	N/A	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Specifications of QC/QA for PCC	4	Assess Quality Control or Quality Assurance for PCC projects.
General PCC practices	4.5	Describe the basic relationships of Portland cement, water, aggregates and air in Portland Cement Concrete.
Testing of PCC using ASTM methods	14	Demonstrate the following tests in accordance with ASTM specifications: air, slump, yield, temperature, sampling, preparing test specimens.
	22.5	

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

• List specifications pertaining to concrete.
• Discuss concrete sampling frequency.
• Demonstrate concrete field testing procedures.

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