

2/16/2023 DATE

- REQUIRED COURSE
 ELECTIVE COURSE

- Technology DIVISION
 NEW COURSE
 REVISION

Lake Land College

Course Information Form

COURSE NUMBER:		CET-026		TITLE: (30 Characters Max)				Nuclear Density (I.D.O.T.)			
SEM CR HRS:	0.5	Lecture:	0.5	Lab:	0	SOE/ Internship:	0	ECH:	0.5	SOE ECH:	0
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	25	8 wks	50	
Prerequisites:	NONE										
Catalog Description: (40 Word Limit)	Upon completion of the course a person is qualified to run a nuclear density gauge on QC/QA asphalt projects. This course covers the use of the gauge and I.D.O.T. paperwork involved.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
Specifications	3			
Gauge Usage and General Information	2			
Reporting	2.5			
TOTAL	7.5	0	0	0

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. Nuclear Density 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>
Specifications	3	Apply IDOT specifications that relate to Nuclear Density testing.
Gauge Usage and General Information	2	Demonstrate safe usage of a Nuclear Density Gauge and illustrate a basic understanding of density and correlations.
Reporting	2.5	Solve calculations associated with the Nuclear Density Gauge and complete all paperwork properly.
	7.5	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
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- List applicable IDOT specifications that apply to IDOT QC/QA Density Inspectors, which relate to the placement of Hot Mix Asphalt.

- Demonstrate a basic understanding of safe usage and general information regarding the Nuclear Density Gauge.

- Demonstrate how to complete the required calculations and paperwork for controlling and performing testing of Hot Mix Asphalt.

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