

<u>3/3/15</u>	DATE	<u>Technology</u>	DIVISION
	REQUIRED COURSE		NEW COURSE
	ELECTIVE COURSE	<u>X</u>	REVISION

LAKE LAND COLLEGE

Course Information Form

COURSE NUMBER IND052 TITLE Electrical Installation Procedures

SEM CR HRS 2.5 LT HRS 1 LAB HRS 3 SOE HRS _____ ECH _____

COURSE PCS# _____ (Assigned by Administration)

Prerequisites: MET040, MET042

Catalog Description (40 Word Limit): Focuses on the methods and materials used in electrical Installation, and the problems encountered in construction work. The National Electrical Code is Used as a guide.

List the Major Course Segments (Units)	Lt Hrs	Lab Hrs
Basic House Wiring	4	15
Basic Industrial Wiring	4	15
Wiring Safety	1	
Single-Phase and Three-Phase Motor Installation	4	10
Circuit Protection	2	5

EVALUATION: Quizzes X Exams X Oral Pres _____ Papers _____

Lab Work X Projects X Comp Final X Other _____

Textbook: Instructor made hands outs and circuit schematics.

Author:

Publisher:

Volume/Edition:

Copyright Date:

Major Course Segment	Hours	Learning Outcomes
Basic House Wiring	19	Students should be able to read a house wiring plan, understand the symbols and do lab projects using actual house wiring components.
Industrial Wiring	19	Students should be able to read electrical schematics and understand conduit, wire size and relay installation.
Wiring Safety	1	Students should know safe procedures for all electrical installations.
Motor Installation	14	Students should be able to hook up and install single phase and three phase motors, and DC motors for single and reversible operation using a variety of controls.
Circuit Protection	7	Students should be able to “size” fuses and circuit breakers correctly and understand correct installation.

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

- Successfully bend conduit 90 degrees to a predetermined length
- Be able to wire a three phase motor correctly
- Wire a residential three-way switch circuit.