
Student Syllabus

Course Title: Electrical Technician
Course Code: ELPT 1019
Course Length: 120 hours

Course Description: Course designed for entry into the workforce with skills and knowledge for increased productivity in the commercial or residential markets. This course includes residential, commercial and industrial electrical systems, trade mathematics, theory, troubleshooting and applicable codes and rules.

Learning Outcomes: Given lecture, handouts and discussion, the student will be able to demonstrate the knowledge, skills and ability associated with the following:
 State and demonstrate Basic Safety
 Explain and apply Trade Math
 Identify, select and demonstrate use of Hand and Power Shop Tools
 List terms, explain types and interpret Construction Drawings and Blueprints
 Identify and locate articles in the National Electric Code
 Define Trade Definitions
 Explain rules and regulations of the TX. Dept. of Licensing and Regulation (TDLR)
 Make conduit bends as specified in course
 Install Circuits and Control Circuits

Prerequisite: None

Course Structure: Content: 120.0 Hours

Electrical safety
 Trade Math
 Basic and Trade tools
 Introduction to the National Electric Code[®]
 Drawings and Blueprints
 TDLR overview
 Wiring and Load Calculations
 Conduit sizing and Bending
 Install Circuits and Control Circuits

Schedule: Tri-weekly 6:00 - 9:00pm

Evaluation: Student Assessments, Passing 70%

Books: Handouts will be supplied

Reference: NCCER Core, Electrical Level One, 2014 NEC[®]

Course Outline

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Delivery Method: Classroom / Lecture/ Lab
Small group discussions

Audience: General

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