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

Course Structure: Content: 120.0 Hours
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- TDLR overview
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Course Evaluation: Student Assessments

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