
Student Syllabus

Course Title: Electrical Technician
Course Code: ELPT 1020
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:

Install Circuits and Control Circuits
 Demonstrate troubleshooting of system and equipment problems
 Calculating residential service requirements; selecting and installing components
 Selecting and using appropriate electrical test instruments
 Explain use of relays, switches, VFD, Motors and Caps
 Explain and demonstrate Grounding and Bonding

Prerequisite: ELPT 1019

Course Structure: Content: 120.0 Hours

Install Circuits and Control Circuits
 Troubleshooting; systems and equipment
 Electrical Test Instruments
 Relays, switches, VFD, Motors and Caps
 Grounding and Bonding
 Electrical test equipment

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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