



Proposed Electrical Engineering Technologies Program Guide
 CIP Code #46.0399

Standard Occupational Classifications	2015 Pennsylvania High Priority Occupations
17-3023.03 Electrical Engineering Technicians 17-2071.00 Electrical Engineers 17-3024.00 Electro-Mechanical Technicians 49-2095.00 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay 47-2111.00 Electricians 49-9051.00 Electrical Power-Line Installers and Repairers 11-9041.00 Engineering Managers	47-2111 Electricians ³ 49-9051 Electrical Power-Line Installers & Repairers ³ 49-9041 Industrial Machinery Mechanics ³
Industry Accreditation	Student Certifications
None at this time	ECTS Program Completer or Participant Pennsylvania Skills Certificate CareerSafe OSHA 10 Hour General Industry ICC Electrical Certificate of Achievement (COA)

Key: ¹Statewide HPO ²Regional HPO ³Both Statewide and Regional HPO

For more information, go to: <http://online.onetcenter.org/find/family?f=17&g=Go>

Expected Characteristics and Traits for Success

People who are employed in this field are responsible for efficiently installing, calibrating, troubleshooting and repairing residential wiring, hydraulics and pneumatics systems. Personal characteristics of the student must be carefully considered. Students entering this program should possess the following traits:

- Able to read and perform math functions at the 10th grade level
- Able to think in a logical and sequential manner
- Able to focus on attention to details
- Enjoys problem-solving
- Positive and energetic

- Safety-conscious and alert
- A good communicator
- Dependable
- Honest and ethical
- Eager to please a supervisor, employer and customer
- Able to work as a part of a team
- A self-starter, hard-working individual who can stay on task
- In school consistently with few absences
- Physical ability to perform the job.
- Ability to be able to distinguish colors (a must for color coding wires).

Listed below are the items each student must supply.

Electrical Engineering Requirements Level One

Tool	Photo	Estimated Cost
Needle Nose Pliers (example)		