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## **Electrical Occupations**



**WACTC Graduates really know Watt's what!**

**The work performed by electricians is specialized and requires particular skills, expertise and tools.**

**ELECTRICIANS MUST BE  
ABLE TO PASS A COLOR  
TEST!**

# ELECTRICAL OCCUPATIONS

## GENERAL KNOWLEDGE

### Course Length

935 hours

### Who Can Enroll

Adults

### Schedule

M-F 7:40-10:30AM

&/or

11:25AM-2:15PM

### Full Time Tuition:

\$8,830.00

### Part Time Tuition:

\$8,830.00

### Book & Fees Costs:

\$400.00

### Equipment & Clearances

\$546.00

### Total Cost

\$9,776.00

### Financial Aid

Available for those who qualify

### Average Pennsylvania

### Salary

\$21.54/hr

Tuition, fees, courses and hours are subject to change without notice.



This major prepares students as electrician's assistants who assist in installing, diagnosing and repairing electrical systems for residential, commercial and industrial applications. Students are trained in safety practices, hand and power tools/equipment use and application and electrical theory along AC/DC circuitry, and wiring applications. Included are motors, motor control circuits, and power distribution systems as well as industrial controls, electromechanical devices, and the National Electrical Code. Hours completed in this major can be counted toward the 8,000 hours (four years) of work experience required for the journeyman electrician license.

### Helpful Attributes and Abilities:

Reading and math skills at the 10th grade level or above

A basic knowledge of general science

Good manual dexterity

Average strength and good physical health

An ability to work independently and as part of a team

# ELECTRICAL OCCUPATIONS

## COURSE HIGHLIGHTS

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WACTC has a long and storied history of success. The Electrical Occupations program was developed to meet the demands of local businessmen who continuously have a need for talented craftsman. Their expertise was instrumental in creating the final product.

### COURSE HIGHLIGHTS

Safe work practices and the proper use and maintenance of electrical equipment  
Electrical troubleshooting, reading diagrams and understanding low voltage transformers and controls  
Understanding the residential home wiring system.  
Wiring Outlets, 2 Way and 3 Way Switches, Lights, Ceiling Fans, Panel Boards  
Running wire in new construction and existing walls  
Basic conduit bending and design skills  
Electrical theory, laws, inductive and resistive loads.

### THE WACTC WAY

At WACTC we believe individuals who make good electricians are those who like to work in many different environments. They are certainly not people who like to be stuck in an office all day – not a “desk” person. Actually they are rather unique individuals with a combination of personalities.

# ELECTRICAL OCCUPATIONS FREQUENTLY ASKED QUESTIONS



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## **Q. How long is the course?**

WACTC has two options for you. Our daytime program runs for one scholastic year and starts in late August this year. You will attend Monday through Friday from roughly 9:00 AM to 3:00 PM or a total of 935 hours of instruction. Our evening program is conducted two nights a week, four hours a night. The 300 hour program runs for approximately 38 weeks. The evening program tends to be a little faster paced than our daytime offering.

## **Q. How much does it cost?**

WACTC is a non-profit institution, so we really try to keep our costs down. The 935 hour daytime option is \$9,776.00 and the 300 hour evening selection is \$7,995.00. Financial aid may be available to those who qualify. We have financial experts on staff to assist you in the process.

## **Q. Are there job opportunities for me when I'm finished?**

Training in Electrical Occupations may lead to entry-level careers in electrical installation, maintenance and repair. Possible job titles include electrician assistant, electrical technician and appliance repair technician. Increases in construction spending and growing demand for alternative energy sources will also drive demand for electricians. Alternative power generation, such as solar and wind, is an emerging field that should require more electricians for installation. Increasingly, electricians will be needed to link these alternative power sources to homes and power grids.

# ELECTRICAL OCCUPATIONS FACTS & FIGURES



**COURSE OBJECTIVE:** Students will obtain the education and skills needed to work as Electricians or Electrical Technicians. Students will be instructed in numerous phases of new and old electrical systems installation.

**COURSE DESCRIPTION:** The programs prepare students for employment in the fields of residential, commercial and industrial wiring and the installation and maintenance of equipment including electrical service entrance panels, lighting systems, communications systems, fiber optics and related equipment, PV (Photovoltaic) systems and wind turbine systems.

**COURSE TOPICS:** Commercial, Industrial and Residential Wiring | Conduit Bending | Fiber Optics | National Electric Code | NFPA 70 Power Transmission | Residential Wiring | Three-Phase Services | Transformers | Safety | Electrical Lightening | Electrical Theory

**SPECIALIZED SHOP EQUIPMENT:** Fiber Optic Training Equipment | Solar / Wind Trainer | Telecommunications Trainer | Boards Trainer | CCTV Trainer | Lockout/Tagout Trainer | Two-Story Mock House with Stud-Framed Walls .

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