

## **JOB DESCRIPTION**

- Install, maintain, and repair electrical systems in buildings, including homes, factories, offices and retail stores
- Install wiring systems, outlets, and light switches; inspect circuit breakers and transformers; repair and replace wiring when needed

## **PAY**

Average median wage: \$62,350 (\$29.88 per hour) in 2024.

## **JOB OUTLOOK**

11% (much faster than average) for 2023-33

## **EDUCATION/TRAINING**

Options include:

- 4-5 year apprenticeship
- Technical training paired with paid on-the-job training
- An Associate in Applied Science degree in Electrical Construction or a related field from a technical college

After receiving a license, you can work unsupervised as a journeyman.

## **IMPORTANT SKILLS**

- Willingness to learn
- Solid work ethic
- Successfully passing a drug test and maintaining a clean drug card
- Strong math and reading skills
- Physical stamina and strength
- Ability to distinguish between different colors
- Critical-thinking skills
- Customer-service skills
- Troubleshooting skills

## **CAREER OPTIONS**

- Journeyman
- Supervisor
- Project manager
- Union representative
- Independent contractor



## **WAYS TO SPECIALIZE**



A skilled craftsman who works on large commercial projects, including new construction, remodeling, maintenance, and repair of factories, schools, hospitals, and other large establishments.

Involves installation, assembly, testing, repair, and design of electrical wiring, fixtures, and equipment. *Also known as an Electrical Construction Worker.*



A skilled craftsman who specializes in wiring houses, apartments, and other living spaces.

They work on:

- Residential Power & Lighting Systems.
- Home Automation Systems, such as telephone systems, security systems, fire alarm systems, TV & satellite systems, local area networks, and climate control systems.

## **RELATED CAREER PATH**



Utility technicians maintain, repair, and install utility systems, including water, sewer, gas, and electric. They work with equipment like pumps and valves, troubleshoot problems, and ensure systems function correctly.

Cuyahoga Community College is the designated training program for utility technicians in North-east Ohio. Graduates are prepared to enter the workforce in jobs such as field service technician, field installation technician, fiber technician, telecommunication technician and more. Both a certificate and associate degree program are available.

[www.tri-c.edu/workforce/advanced-manufacturing-and-engineering/emerging-industries-and-occupations/utility-technician.html](http://www.tri-c.edu/workforce/advanced-manufacturing-and-engineering/emerging-industries-and-occupations/utility-technician.html)

## ABOUT APPRENTICESHIPS

### MINIMUM REQUIREMENTS

- At least 18 years of age (or 17 years and a high school graduate).
- High school diploma, GED, or an associate or higher degree.
- A qualifying score of '4' on the electrical trade's aptitude test developed and validated by the American Institutes for Research. Applicants are scheduled for the aptitude test upon receipt of all required documentation and a processing fee.
- A valid driver's license and reliable transportation.
- Physical ability to perform electrical construction work.
- A legal right to work in the United States.
- A passing grade in high school.

### TRAINING

- Electrical theory
- Blueprint reading
- Mathematics,
- Electrical code requirements
- Safety and first aid practices
- Specialized training such as soldering, communications, fire alarm systems and elevators.

### RESOURCES

#### **IBEW Local 673 Electrician Apprenticeships** (*Lake, Ashtabula and Geauga Counties*)

8376 Munson Road, Mentor, OH 44060  
440-255-3208

Paul Rehbergar, Training Director

[ibew673.org/electrician-apprenticeship/](http://ibew673.org/electrician-apprenticeship/)

#### **Cleveland Electrical Joint Apprenticeship & Training Center** (*Cuyahoga County*)

[cejatc.org/the-cleveland-electrical-apprenticeship-program/](http://cejatc.org/the-cleveland-electrical-apprenticeship-program/)

#### **Akron Electrical Joint Apprenticeship & Training Center** (*Akron area*)

[electrifymyfuture.com/](http://electrifymyfuture.com/)

## TRAINING PROGRAMS

### **ASHTABULA COUNTY TECHNICAL & CAREER CAMPUS** (*Jefferson*)

**Industrial Electricity** Students learn fundamental concepts of electricity to prepare them for an entry-level job in the industry.

<https://actc.axstudent.com/#/category/W0>

### **AUBURN CAREER CENTER** (*Painesville*)

#### **Industrial Electricity Electrical Training**

This course provides training in industrial electrical applications and includes hands-on learning with equipment.

[www.auburncc.org/programs.aspx](http://www.auburncc.org/programs.aspx)

### **LAKELAND COMMUNITY COLLEGE**

(*Kirtland*)

- **Electrical Construction Certificate**, 30-credits
- **Associate of Technical Studies, Electrical Construction** (5-year program offered in conjunction with IBEW 673)

[catalog.lakelandcc.edu/degree-certificate-programs/ecta/](http://catalog.lakelandcc.edu/degree-certificate-programs/ecta/)

## ADDITIONAL RESOURCES

### **Cleveland Building and Trades Center**

[www.cbctc.org/](http://www.cbctc.org/)

### **National Electrical Contractors Association**

[www.necanet.org/education](http://www.necanet.org/education)

### **BLS Occupational Outlook Handbook**

[www.bls.gov/ooh/construction-and-extraction/electricians.htm#tab-1](http://www.bls.gov/ooh/construction-and-extraction/electricians.htm#tab-1)

### **Northern Ohio Independent Electrical Contractors Association**

<https://iecnorthernohio.org/>