

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

9% (much faster than average) for 2024-34

EDUCATION/TRAINING

Options include:

- Four- to five-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
- Strong math and reading skills
- Physical stamina and strength
- Critical-thinking skills
- Customer-service skills
- Troubleshooting skills

CAREER OPTIONS

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

WAYS TO SPECIALIZE

INSIDE WIREMEN are skilled craftsmen who work 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.

RESIDENTIAL WIREMEN are skilled craftsmen who specialize in wiring houses, apartments, and other living spaces.

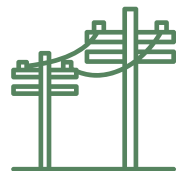


They work on:

- 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 Northeast 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 an associate degree program are available.

www.tri-c.edu/workforce/advanced-manufacturing-and-engineering/emerging-industries-and-occupations/utility-technician.html

ABOUT APPRENTICESHIPS



MINIMUM REQUIREMENTS

- Age 18 or older (or 17 and a high school graduate)
- High school diploma, GED, or an associate degree or higher
- 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 this test upon receipt of required documentation and a processing fee
- Valid driver's license and reliable transportation
- Physical ability to perform electrical construction work
- Legal right to work in the U.S.
- Passing grades 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, & Geauga Counties)
8376 Munson Road, Mentor, OH 44060, 440-255-3208
Paul Rehberger, Training Dir.
ibew673.org/electrician-apprenticeship/

Cleveland Electrical Joint Apprenticeship & Training Center (Cuyahoga County)
cejatc.org/the-cleveland-electrical-apprenticeship-program/

Akron Electrical Joint Apprenticeship & Training Center (Akron area)
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. auburncc.axstudent.com/#/category/b3

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/

ADDITIONAL RESOURCES

CLEVELAND BUILDING TRADES CENTER: www.cbctc.org/

NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION: www.necanet.org/education

BLS OCCUPATIONAL OUTLOOK HANDBOOK:
www.bls.gov/ooh/construction-and-extraction/electricians.htm#tab-1

NORTHERN OHIO INDEPENDENT ELECTRICAL CONTRACTORS ASSOCIATION:
iecnorthernohio.org/apprenticeship/