

Electrician



A career as an electrician offers great job security and very good top-end wage earning prospects. As buildings require more and more wiring and their components, demand for qualified electricians increases. The field as a whole is predicted to grow 14% over the next decade. And, with some years' experience, electricians can make up to \$40.00 per hour. On average, electricians earn more than \$50,000 per year.

- Average income of an Electrician-\$51,880/Hourly Rate-\$24.94
- Expected growth over the next ten years-14%
- Number of new jobs-85,900

Electricians install electrical wiring as well as maintain repair wiring and other electrical components. This can include power needs for communication, lighting and various control systems in homes, businesses, churches, schools, factories and other buildings.

Basic Responsibilities of Electricians:

- Plan and install electrical wiring, equipment, or fixtures, according to project specifications within local codes;
- Connect wires to circuit breakers, transformers, or other components;
- Test electrical systems or continuity of circuits in electrical wiring, equipment, or fixtures, using testing devices, such as ohmmeters, voltmeters, or oscilloscopes, to ensure compatibility and safety of system;
- Use a variety of tools or equipment, such as power construction equipment, measuring devices, power tools, and testing equipment, such as oscilloscopes, ammeters, or test lamps;
- Inspect electrical systems, equipment, or components to identify hazards, defects, or the need for adjustment or repair, and to ensure compliance with codes.

For more information on the duties of this career, see [link](https://www.onetonline.org/link/summary/47-2111.00). <https://www.onetonline.org/link/summary/47-2111.00>

Electricians usually work full time in a variety of settings and buildings. Their work requires both indoor and outdoor projects. Electricians usually attend a technical-trade school, and many states require electricians be licensed. <https://www.onlineschoolscenter.com/30-high-paying-trade-school-degrees/>

The Electrical Training Institute – Indianapolis, Indiana

Students who complete their coursework and graduate from the Electrical Training Institute are considered among the most highly skilled electricians in the construction industry...ready to pursue a variety of exciting career paths.

In addition to earning their Journeyman Electrician certification, many graduates also earn an associate degree through a cooperative arrangement with Ivy Tech Community College. Every graduate is in the position of attaining solid job security and earning high wages and valuable fringe benefits.

The acronym IEJATC stands for the Indianapolis Electrical Joint Apprenticeship Training Center. The word “Joint” represents the collaborative effort between the International Brotherhood of Electrical Workers (IBEW) and the National Electrical Contractors Association (NECA). The school is referred to as the Electrical Training Institute.

The Indianapolis Electrical Apprenticeship program is five (5) years in length. The apprentices go to school for eight hours every other week at our apprenticeship school, and then work on a construction site for an electrical contractor the other 9 days in the 2 week cycle. The typical school year runs from mid-August until mid-June. The apprentices have 2 semesters each year and will attend apprenticeship school a minimum of 11 eight hour days each semester.

The Apprentices also receive an Associate Degree in Applied Science from Ivy Tech Community College during the five years of their apprenticeship. The Electrical Apprenticeship programs across Indiana have an articulation agreement with Ivy Tech that allows the apprentices to receive their degree after completing a minimum of four general education classes.

Upon completion of your apprenticeship, you may choose to continue your education at IUPUI. The Purdue School of Engineering and Technology transfers credits toward an OLS bachelor's degree.

The wages for apprentices are as follows (Effective June 1, 2016):

| Year of apprenticeship | Hourly wage |
|------------------------|-------------|
| 1st year | \$16.00 |
| 2nd year | \$18.70 |
| 3rd year | \$21.45 |
| 4th year | \$24.70 |

- **Earn an associate degree through Ivy Tech Community College**

- **Have employment and job security after graduation**

- **Receive paid health insurance, life insurance and retirement benefits**

| | |
|--------------------|---------|
| 5th year | \$28.05 |
| Journeyman Wireman | \$34.15 |

International Brotherhood of Electrical Workers Local Union #481

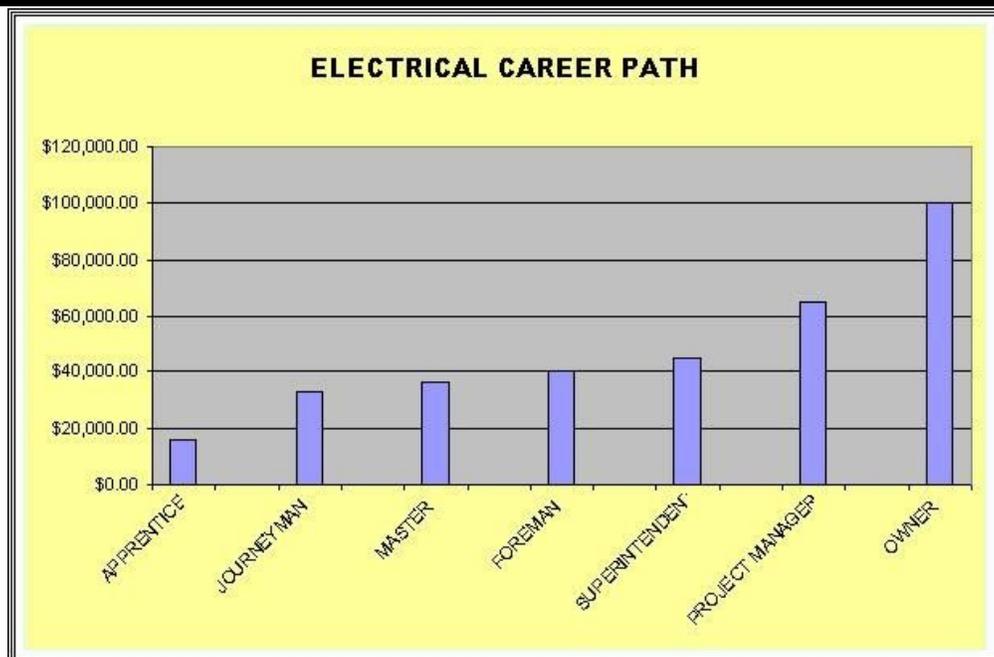
http://www.ibew481.org/join_the_union/

Each apprentice is required to work a minimum of 8000 hours in the field, to acquire the on-the-job training hours. Each apprentice also must complete a minimum of 900 hours of related school work during their five years of apprenticeship. During that time, the apprentices will become proficient in the national electrical code, AC and DC theory, motor controls, programmable controls, blueprint reading, low and high voltage terminations and splices, energy management practices, and alternative energy installations.

The apprentices will be certified in OSHA, Red Cross/First Aid and will be certified green technicians by the time of their graduation from the program. Other certifications that are available include the International Society of Automation (ISA) CCST and the industry cabling certification from BICSI.

All of the classes are taught by industry certified instructors who have completed an apprenticeship in the electrical industry, worked in the electrical field as an apprentice, journeyman, and supervisor, and have received their teaching credentials through the National Training Institute for the Electrical Industry.

The union electrical apprenticeship program will assign the apprentice to an electrical contractor for their work experiences. The apprentices will work for a minimum of 3 contractors during their five year apprenticeship. During this time, the apprentice may work on industrial, institutional, commercial and light commercial projects. This rotation of contractors enhances the apprentices learning experience and enables them to learn from the best of the best in the Union Electrical Construction Industry.

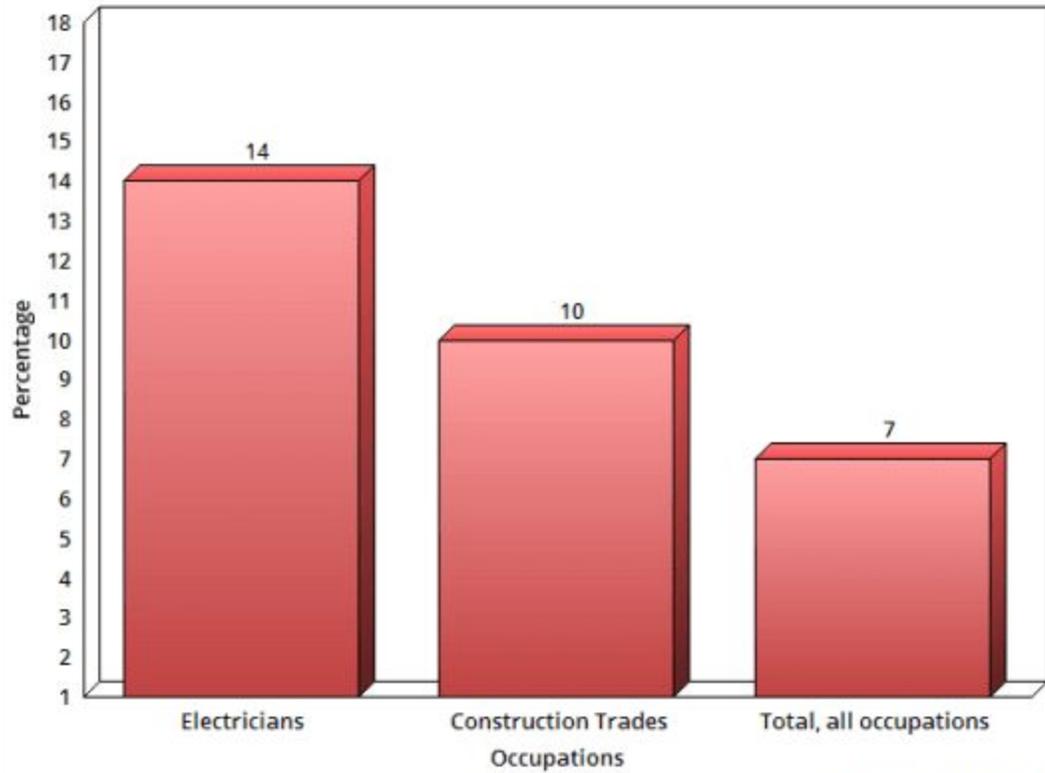


POSSIBLE CAREER PATH

The good thing about a career in the electrical field is the diversity of responsibilities. Additionally, talented and hardworking individuals can progress in their careers quickly. Electrician is one of the most entrepreneurial professions in America!



Job Growth Outlook 2014-2024



U.S. Bureau of Labor Statistics