



## CAREER OPPORTUNITIES

According to the U.S. Bureau of Labor Statistics, job opportunities should be best for applicants with an associate degree in electronics, certification, and related experience. In addition to employment growth, the need to replace workers who transfer to other occupations or leave the labor force will result in job openings. Electricians can expect to earn about \$18.32 to \$28.15 per hour.

PR 03/16

## Financial Aid Information

PSC's tuition is affordable, and financial aid is available through a variety of sources.

### How to Apply

#### 1. Complete the Free Application for Federal Student Aid (FAFSA)

The school code for PSC is 001640. Apply online at [fafsa.gov](http://fafsa.gov).

#### 2. Notification from Department of Education

If you listed PSC's school code in your FAFSA, the college's Financial Aid Office will receive your report in approximately 14 days.

#### 3. Notification from PSC

Once PSC receives your FAFSA from the Department of Education, a letter is mailed to the student indicating needed documents.

#### 4. Complete the PSC financial aid application.

#### 5. Determination Letter

Once all documents are completed, an award or ineligible letter is issued.

### PSC Financial Aid Opportunities:

- PSC Board of Trustees Scholarships cover tuition and fees for two years.
- The PSC Foundation awards more than \$75,000 in scholarships annually.

For more information about how to obtain financial aid, visit [prairiestate.edu/finaid](http://prairiestate.edu/finaid), call (708) 709-3735, or email [financial-aid@prairiestate.edu](mailto:financial-aid@prairiestate.edu).

### Gainful Employment Disclosure

The U.S. Department of Education requires colleges with financial aid eligible programs that "prepares students for gainful employment in a recognized occupation" to disclose certain information about these programs. For more information about our graduation rates, the median debt of students who have completed the program, and other important information related to the program, please visit our website at [prairiestate.edu/ge](http://prairiestate.edu/ge). We hope that this information is helpful in making informed choices about your education.

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### Find out more today by contacting

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## Prairie State College

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PRAIRIE STATE COLLEGE

# INDUSTRIAL ELECTRICITY





## INDUSTRIAL ELECTRICITY AT PRAIRIE STATE COLLEGE

Electricians install and maintain all of the electrical and power systems for homes, businesses, and factories. Prairie State College (PSC) offers programs to prepare students to work as electricians. Electricians usually focus on either construction or maintenance, although many do both. Electricians specializing in construction primarily install wiring systems in industrial, commercial, and residential facilities. Electricians specializing in maintenance fix and upgrade existing electrical systems and repair electrical equipment.

## DEGREES AND CERTIFICATES

### ASSOCIATE IN APPLIED SCIENCE (A.A.S.)

Industrial Electrician

### CERTIFICATE OF ACHIEVEMENT

Industrial Electrician

Industrial Maintenance Technician

## Industrial Electrician

### A.A.S. Degree

The industrial electrician degree program prepares students for work as electricians in industrial, commercial, and residential settings.

### I. General Education Core

19-21 credits

#### Area A: Communication

6

ENG 101	Composition I - with a grade of C or better.	3
COMM 101	Principles of Communication	3

#### Area B: Humanities and Fine Arts

3

Select one course from Area B

#### Area C: Mathematics

3-4

Select one course from:

IT 106	Mathematics for Computers	3
MATH 151	College Algebra	4
TECH 109	Technical Mathematics I	4

#### Area D: Physical and Life Sciences

4-5

Select one course from:

CHEM 105	Survey of General Chemistry	4
CHEM 110	General Chemistry I	5
PHYS 111	Physical Science	4
PHYSI 101	Conceptual Physics	4
PHYSI 120	College Physics I	4
PHYSI 210	University Physics I	4

#### Area E: Social and Behavioral Science

3

Select one course from Area E

### II. Program Requirements

41 credits

COL 101	First-Year Seminar	1
COL 102	Career Development Seminar	1
ELECT 101	Fundamentals of Electricity I	2
ELECT 102	Fundamentals of Electricity II	2
ELECT 103	Alternating Current	2
ELECT 105	Power, Transformers, Polyphase Circuits	2
ELECT 106	DC Motors and Generators	2
ELECT 107	AC Motors and Generators	2
ELECT 108	Electrical Control for Machines I	2
ELECT 109	Electric Control for Machines II	2
ELECT 111	Electronic Principles I	2
ELECT 112	Electronic Principles II	2
ELECT 113	Blueprint Reading for Electricians	2
ELECT 114	National Electrical Code	2
ELECT 120	Electrical Safety	2
ELECT 159	Electrical Wiring I	2
ELECT 203	Industrial Electronics I	2
ELECT 204	Industrial Electronics II	2
ELECT 208	Programmable Logic Controllers I	2
ELECT 209	Programmable Logic Controllers II	2
ELECT 298	Electrical Seminar	1
ELECT 299	Electrical Internship	2



# ABOUT THE CURRICULUM

## III. Electives

8 credits

Select 8 credits from:

ELECT 141	Conduit Bending - Thinwall	2
ELECT 150	Preventive Maintenance - Electrical	2
ELECT 160	Electrical Wiring II	2
ELECT 201	Digital Fundamentals I	2
ELECT 202	Digital Fundamentals II	2
ELECT 206	Instrumentation Fundamentals I	2
ELECT 207	Instrumentation Fundamentals II	2
ELECT 230	Alternative Small Energy Systems	2
ELECT 290	Special Topics in Electricity	3
PHYSI 130	College Physics II	4

**Program Total**

**68-70 credits**

## Industrial Electrician

**Certificate**

### Program Requirements

38-39 credits

Select one course from:

IT 106	Mathematics for Computers	3
MATH 151	College Algebra	4
TECH 109	Technical Mathematics I	4

COL 101	First-Year Seminar	1
COL 102	Career Development Seminar	1
ELECT 100	Electric Wiring I	2
ELECT 101	Fundamentals of Electricity I	2
ELECT 102	Fundamentals of Electricity II	2
ELECT 103	Alternating Current	2
ELECT 106	DC Motors and Generators	2
ELECT 107	AC Motors and Generators	2
ELECT 108	Electrical Control for Machines I	2
ELECT 109	Electric Control for Machines II	2
ELECT 113	Blueprint Reading for Electricians	2
ELECT 114	National Electrical Code	2
ELECT 120	Electrical Safety	2
ELECT 203	Industrial Electronics I	2
ELECT 204	Industrial Electronics II	2
ELECT 208	Programmable Logic Controllers I	2

Select 5 credits from:

ELECT 111	Electronic Principles I	2
ELECT 112	Electronic Principles II	2
ELECT 141	Conduit Bending - Thinwall	2
ELECT 160	Electrical Wiring II	2
ELECT 201	Digital Fundamentals I	2
ELECT 202	Digital Fundamentals II	2
ELECT 206	Instrumentation Fundamentals I	2
ELECT 207	Instrumentation Fundamentals II	2
ELECT 209	Programmable Logic Controllers II	2
ELECT 290	Special Topics in Electricity	3

**Program Total: 38-39 credits**

The industrial electrician degree program prepares students for work as electricians and to meet the demands of changing technology. Training encompasses theory as well as hands-on skills. Students pursuing the A.A.S. degree on a full-time schedule will be prepared for entry-level positions as industrial electricians. This training has been approved by the United States Bureau of Apprenticeship Training.

The industrial electrician certificate prepares students to troubleshoot and maintain electrical devices used in a manufacturing industry, while the industrial maintenance technician certificate trains students for a company's individual workplace needs.

## ADMISSIONS

PSC offers "open admission" that encourages diversity and admits all high school graduates or the equivalent.

Here's how to start your college career at PSC:

- Provide a high school diploma or GED.
- Take the COMPASS Placement Test or submit a copy of ACT scores.
- Meet with an advisor from Counseling and Advising to select courses. For questions, contact an academic advisor at (708) 709-3506.