



Construction Electrician Program Description

Industry Description

As a Construction Electrician, you will work with electrical materials on construction and remodeling jobs. More specifically, Construction Electricians plan, assemble, install, and test electrical fixtures, apparatus, and wiring that is used in both new and existing buildings. Construction Electricians must have a complete knowledge of electrical codes, theory, and materials in order to correctly install and troubleshoot all types of electrical equipment and controls as required for each type of building.

Wages/Outlook/Advancement

Wage information is available from the Minnesota Department of Education and the [Minnesota Department of Employment and Economic Development](#)

Experienced electricians who work for large companies have several options for advancement. Those who have good people skills may become supervisors. Those who have good organizational skills may become managers. Construction electricians may transfer to electrical jobs in the shipbuilding, automobile, or aircraft industries. Some electricians start their own businesses. Those who have a master electrician's license may become contractors.

Program Description

The Construction Electrician Program consists of technical courses designed to develop skills in the installation and testing of electrical fixtures and wiring, including blueprint reading, wiring code, electrical theory, and wiring laboratory. Although no prior knowledge or experience is necessary to succeed in this program, prospective Construction Electrician students should have a high school diploma or GED. Helpful high school courses include electronics, drafting, carpentry, and algebra/ trigonometry.

Prospective students should be in good physical health, able to lift 75-100 pounds, able to distinguish colors, able to work from ladders, enjoy doing a variety of tasks, and may be required to pass an industry physical. Many graduates of this program join unions to complete their apprenticeship training.

The Construction Electrician Program is approved by the State Board of Electricity, the Twin Cities Joint Apprenticeship Committee, and many unions in the upper Midwest, including: Local 110 (St. Paul), Local 292 (Minneapolis), Local 343 (Mankato), Local 242 (Duluth), Local 294 (Bemidji, Iron Range), Local 1426 (Fargo, East Grand Forks, Grand Forks), and Local 426 (Sioux City, Sioux Falls, Colorado, and Kansas).

IMPORTANT ACCUPLACER Test Requirement: ACCUPLACER testing in math, reading and writing. Any needed developmental courses must be completed before receiving a diploma or an A.A.S. award.

Program Essentials

Length of Program

Diploma 72 credits

Start Dates

Spring Semester January
Fall Semester August

This information is available in alternative formats by calling (763) 576-4700. TTY users can call Minnesota Relay at (800) 627-3529. Anoka Technical College • (763) 576-4700 • 1355 West Highway 10, Anoka, MN 55303 • A member of the Minnesota State Colleges and Universities System • Anoka Technical College is an equal opportunity, affirmative action employer and educator.

Program Contact

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For information on how to apply or to schedule a campus tour please contact the Admissions Office

Phone (763) 576-4700

E-mail info@anokatech.edu

**Construction Electrician
Diploma**
72 Credits**General Education****12 Credits**

ENGL1105	Composition I	4
MATH1400	Algebra and Trigonometry	5
SPCH1200	Interpersonal Communication	3

Technical Education**60 Credits**

ELEC1001	Electrical Theory I	5
ELEC1020	Residential Wiring Lab I	4
ELEC1030	National Electrical Code I	2
ELEC1061	Electrical Theory II	5
ELEC1080	Residential Wiring Lab II	4
ELEC1090	National Electrical Code II	3
ELEC1101	Power Limited	2
ELEC1107	PLC's and Electronics for Electricians	6
ELEC1110	Lighting	2
ELEC1120	Electrical Heating & Air Conditioning	2
ELEC1130	Plan Reading	2
ELEC1140	Safety Principles/OSHA	1
ELEC1141	Safety / OSHA	2
ELEC2010	Commercial Wiring Lab I	3
ELEC2020	Motors and Controls I	2
ELEC2030	National Electrical Code III	3
ELEC2040	Three-Phase Electrical Theory	4
ELEC2060	Commercial Wiring Lab II	3
ELEC2071	Motors and Controls II	3
ELEC2080	National Electrical Code IV	2