

Program Information

The Anoka Technical College Construction Electrician diploma is an 82-credit program designed to develop skills in the installation and testing of electrical fixtures. Students will study wiring, including blueprint reading, wiring code, electrical theory and wiring laboratory. Many graduates of this program join unions to complete their apprenticeship training.

Program Learning Outcomes

1. Work safely amongst others.
2. Troubleshoot electrical circuits using proper technique.
3. Design and install single family dwelling circuits to NEC standards.
4. Design and install commercial and industry circuits to NEC standards.
5. Design and install control circuits to NEC standards.
6. Effectively follow verbal and written instructions.
7. Identify code articles that pertain to the project.

Career Opportunities

As a construction electrician, program graduates 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 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.

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

Accreditation/Certification

Minnesota Department of Labor and Industry
Two year Construction Electrician Program Approval

Endorsements

The Construction Electrician diploma is approved by:

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

Program Start Dates

Fall Semester.....August
Spring SemesterJanuary**

**Students who start in the spring will need more time to complete this program.

Course Prerequisites

Some courses in this program may require a prerequisite. Please see [course descriptions](#) for more details.

Program Sequence

Fall Semester 19
<input type="checkbox"/> ELEC 1002	Electrical Theory I 6
<input type="checkbox"/> ELEC 1021	Residential Wiring Lab I..... 5
<input type="checkbox"/> ELEC 1031	National Electrical Code I 3
<input type="checkbox"/> MATH 1400	Algebra and Trigonometry..... 5
Spring Semester 18
<input type="checkbox"/> ELEC 1062	Electrical Theory II..... 6
<input type="checkbox"/> ELEC 1081	Residential Wiring Lab II 6
<input type="checkbox"/> ELEC 1091	National Electrical Code II..... 3
<input type="checkbox"/> ELEC 1122	Electrical Heating & Air Conditioning 3
Summer Semester 8
<input type="checkbox"/> ELEC 1101	Power Limited 2
<input type="checkbox"/> ELEC 1110	Lighting..... 2
<input type="checkbox"/> ELEC 1130	Plan Reading..... 2
<input type="checkbox"/> ELEC 1142	Safety Principles/OSHA 2
Fall Semester 19
<input type="checkbox"/> ELEC 2011	Commercial Wiring Lab I..... 5
<input type="checkbox"/> ELEC 2021	Motors and Controls I..... 2
<input type="checkbox"/> ELEC 2031	National Electrical Code III..... 3
<input type="checkbox"/> ELEC 2041	Three-Phase Electrical Theory..... 5
<input type="checkbox"/> ENGL 1107	Composition I (Goal 1&2)..... 4
Spring Semester 18
<input type="checkbox"/> ELEC 1108	PLC's for Electricians..... 3
<input type="checkbox"/> ELEC 2061	Commercial Wiring Lab II..... 6
<input type="checkbox"/> ELEC 2072	Motors and Controls II..... 3
<input type="checkbox"/> ELEC 2081	National Electrical Code IV..... 3
<input type="checkbox"/> SPCH 1200	Interpersonal Communication (Goal 1&7)..... 3

Graduation Requirements

Students must earn a cumulative 2.0 GPA or higher to be eligible for graduation from this program.

Faculty Contact

[Brian Schelkoph](#)..... 763-576-4228

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu



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