

Construction Electrician

Diploma

Program Information

The Anoka Technical College Construction Electrician diploma is a 72-credit program that 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.

Many graduates of this program join unions to complete their apprenticeship training.

Endorsements

The Construction Electrician diploma 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).

Prerequisites

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.

The required math and English courses may have prerequisites depending on your Accuplacer assessment score.

Graduation Requirements

All Anoka Technical College students must demonstrate basic competency in Math, English, and Reading. Competency may be demonstrated through achieving minimum cut scores in new student assessments (Accuplacer); through other assessment exemptions; or through successful completion of Basic Math, Basic English, and Reading courses, earning a "C" or higher before receiving a diploma or an associate in applied science degree.

Also see graduation standards in Anoka Technical College *Student Handbook*.

NOTE: Program plans are subject to change. Please contact your program advisor for the most current program information.

Transfer Opportunities

To see how this program transfers to other programs, review the Anoka Tech articulation agreements at [Minnesota Transfer](#). Articulation agreements are transfer agreements with specific programs and partnering schools. These agreements detail how specific courses transfer to a specific program at the partnering school. For a complete list of Anoka Tech's articulation agreements listed by program please see this [Minnesota Transfer link](#).

This program may also include Minnesota Transfer Curriculum (MnTC) courses. MnTC courses transfer to meet MnTC general education courses throughout the Minnesota State Colleges and Universities (MnSCU) system. MnTC courses from Anoka Technical College transfer to any MnSCU institution to meet the same goal areas that are met at Anoka Tech. Students are encouraged to contact the Office of Records and Registration

Technical Requirements	60
General Education/MnTC.....	12
TOTAL CREDITS	72

Technical Education

60 Credits

<input type="checkbox"/>	ELEC 1001	Electrical Theory I	5
<input type="checkbox"/>	ELEC 1020	Residential Wiring Lab I	4
<input type="checkbox"/>	ELEC 1030	National Electrical Code I	2
<input type="checkbox"/>	ELEC 1061	Electrical Theory II	5
<input type="checkbox"/>	ELEC 1080	Residential Wiring Lab II.....	4
<input type="checkbox"/>	ELEC 1090	National Electrical Code II.....	3
<input type="checkbox"/>	ELEC 1101	Power Limited.....	2
<input type="checkbox"/>	ELEC 1107	PLC's and Electronics for Electricians.....	6
<input type="checkbox"/>	ELEC 1110	Lighting	2
<input type="checkbox"/>	ELEC 1121	Electrical Heating & Air Conditioning	2
<input type="checkbox"/>	ELEC 1130	Plan Reading.....	2
<input type="checkbox"/>	ELEC 1140	Safety Principles/OSHA I	1
<input type="checkbox"/>	ELEC 1141	Safety/OSHA II.....	2
<input type="checkbox"/>	ELEC 2010	Commercial Wiring Lab I	3
<input type="checkbox"/>	ELEC 2020	Motors and Controls I	2
<input type="checkbox"/>	ELEC 2030	National Electrical Code III	3
<input type="checkbox"/>	ELEC 2040	Three-Phase Electrical Theory.....	4
<input type="checkbox"/>	ELEC 2060	Commercial Wiring Lab II.....	3
<input type="checkbox"/>	ELEC 2071	Motors and Controls II.....	3
<input type="checkbox"/>	ELEC 2080	National Electrical Code IV.....	2

General Education/MnTC Requirements

12 Credits

Twelve general education credits of Minnesota Transfer Curriculum (MnTC) are required. Student is required to take:

<input type="checkbox"/>	ENGL 1105	Composition I	4
<input type="checkbox"/>	MATH 1400	Algebra and Trigonometry	5
<input type="checkbox"/>	SPCH 1200	Interpersonal Communication	3

Also see: *Architectural Technology associate in applied science (AAS) degree, Construction Estimating certificate and Architectural Technology diploma*

at all transfer schools for details about the institution's transfer process and policies.

For more information please visit our [Transfer page](#)

Industry Information

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 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.

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Construction Electrician Diploma

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.

Gainful Employment

Follow this link for a [Gainful Employment Report](#).

Technical Requirements	60
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TOTAL CREDITS	72

Start Dates

Spring Semester	January
Fall Semester	August

Faculty Contact

[Don Clausnitzer](#).....763-576-4700
For service during summer hours contact Enrollment Services 763-576-7710

For information on how to apply or to schedule a tour, please contact Admissions by phone 763-576-7710 or by email at info@anokatech.edu

Sample Program Sequence

	Fall Semester	Spring Semester	Summer Semester (four-weeks)
FIRST YEAR	ELEC 1001.....5	ELEC 1061.....5	ELEC 1101.....2
	ELEC 1020.....4	ELEC 1080.....4	ELEC 1110.....2
	ELEC 1030.....2	ELEC 1090.....3	ELEC 1121.....2
	ELEC 1140.....1	ELEC 1141.....2	ELEC 1130.....2
	MATH 1400.....5	TOTAL.....14	TOTAL.....8
	TOTAL.....17		
SECOND YEAR	Fall Semester	Spring Semester	
	ELEC 2010.....3	ELEC 11074	
	ELEC 2020.....2	ELEC 20603	
	ELEC 2030.....3	ELEC 2071.....2	
	ELEC 2040.....4	ELEC 20803	
	ENGL 1105.....4	SPCH 12004	
	TOTAL.....16	TOTAL17	

Although the general education courses are listed in the sequence above, the courses may be taken any semester and in any order.