

Electrical Technology

Certificate AAS Degree (option)

The Electrical Technology certificate program is a 30-credit hour program that includes theory and hands-on application. The program prepares students to take the Journeyman Electrician exam. In Kansas, individual cities and counties issue licenses for electricians. The first requirement is typically attainment of the Journeyman classification through training and passing the Journeyman exam. Graduates of a college program need only one additional year of field experience (2,000 hours) under the supervision of a licensed journeyman or master electrician in order to sit for the journeyman licensing exam.

The program utilizes the National Center for Construction Education and Research (NCCER) curriculum. NCCER is a nationally recognized credentialing and certification system. Students completing the program will cover NCCER Core and Electrical Level 1. Successful students will also obtain OSHA 10 certification. This program is aligned with the Kansas Board of Regents Electrical Technology Program CIP: 46.0302.

Electricians install, maintain, and repair electrical power, communications, lighting, and control systems in homes and businesses. Students may enter the industry as journeyman electricians, ready to perform on-the-job training in preparation for licensure. US Department of Labor Bureau of Labor Statistics indicates employment of electricians is expected to grow 9 percent from 2016 to 2026. The median annual wage for electricians was \$52,720 in May 2016.

In this program, students will learn about the electrical trade with strong emphasis on electrical safety. Students will learn electrical theory and the National Electric Code. Students will obtain hands-on experience with electrical circuits, device boxes, raceways and fittings, conductors and cables. Additionally, students will learn how to read electrical construction drawings and how to use electrical testing equipment.

Electrical Technology Certificate Program Outcomes

1. Demonstrate an understanding of OSHA safety standards.
2. Demonstrate the ability to correctly use power and hand tools.
3. Demonstrate the ability to read blueprints.
4. Use and interpret the National Electric Code.
5. Demonstrate an understanding of AC/DC Circuits.
6. Demonstrate safe and proper residential wiring methods.
7. Demonstrate safe and proper commercial wiring methods.
8. Demonstrate basic employability skills.

Sequence of Courses

		Cr Hrs
Semester I		
CMCT 105	OSHA 10 Safety Orientation	1
CMCT 106	Introduction to Craft Skills	3
ELEC 102	Print Reading	3
	Total	7
Semester II		
ELEC 104	National Electrical Code I	4
ELEC 106	AC/DC Circuits I	4
	Total	8
Semester III		
ELEC 108	Residential Wiring I	4
ELEC 204	National Electrical Code II	4
	Total	8
Semester IV		
ELEC 206	Commercial Wiring I	4
ELEC 210	Electrical Externship	3
	Total	7
	Total Electrical Technology Certificate Credits	30

Associate of Applied Science Option

Students interested in completing an Associate of Applied Science degree in Industrial Engineering Technology should visit with an advisor to determine general education requirements. The AAS Degree requires 64 credit hours including a minimum of 42 technical credits hours. First-time, full-time students are required to take CURR 100, First Year Seminar.

Required General Education Courses include:

ENGL 101 English Composition I, 3 cr hrs
COMM 213 Interpersonal Communication, 3 cr hrs
CSIS 100 Computer Concepts and Applications, 3 cr hrs
Additional General Education Hours to bring degree total to 64.

For more information contact:

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