

NCCER Electrical Level 4 (Technical Diploma)

This program is designed to prepare students to work as an Electrician. Electricians install electrical systems in structures; they install wiring and other electrical components, such as circuit breaker panels, switches, and light fixtures, and they follow blueprints, the National Electrical Code® and state and local codes. This program covers four levels of training based on curriculum developed by the National Center for Construction Education and Research (NCCER). To prepare trainees for a career in the electrical field, NCCER offers a comprehensive, 4-level Electrical curriculum that complies with DOL time-based standards for apprenticeship. Students who successfully complete the program will be nationally certified by NCCER.

A career and technical certificate (CTC) may be earned in the first semester and a certificate of technical studies (CTS) may be earned in the second semester; a technical diploma may be earned upon completion of all technical courses. Students also have the option to complete the Technical Studies Associate of Applied Science with a concentration in Electrical by completing General Education courses in addition to the technical courses.

To receive any credential in this program, the student must:

- Complete the program of study outlined below.
- Earn a “C” or better in all courses required for the completion of the program.

Program Outcomes. Upon successful completion of the program, the graduate will be able to:

1. Apply electrical theory and tools in residential and construction environments.
2. Integrate various electrical devices to construct electrical systems.
3. Employ electrical calculations to size and troubleshoot electrical systems.
4. Demonstrate knowledge of the National Electrical Code and its application to various industries.
5. Demonstrate proper safety, use, maintenance, and storage of electrical equipment.

Program of Study

First Semester		Credit Hours
CORE 1003	Introduction to Craft Skills	3
ELEC 1119	Electrical Level 1	9
ELEC 1216	Electrical Level 2 Part 1	6
Semester Total:		18
Second Semester		Credit Hours
ELEC 1226	Electrical Level 2 Part 2	6
ELEC 1316	Electrical Level 3 Part 1	6
ELEC 1326	Electrical Level 3 Part 2	6
Semester Total:		18

Third Semester		Credit Hours
ELEC 1419	Electrical Level 4	9
Semester Total:		9
Total Program Credit Hours:		45

Electrical Credentials Available:

		Credit Hours
CORE 1003	Introduction to Craft Skills	3
ELEC 1119	Electrical Level 1	9
CTC: Electrical Level 1		12

		Credit Hours
CORE 1003	Introduction to Craft Skills	3
ELEC 1119	Electrical Level 1	9
ELEC 1216	Electrical Level 2 Part 1	6
ELEC 1226	Electrical Level 2 Part 2	6
CTS: Electrical Level 2 (Level 1 and Level 2 courses):		24

		Credit Hours
CORE 1003	Introduction to Craft Skills	3
ELEC 1119	Electrical Level 1	9
ELEC 1216	Electrical Level 2 Part 1	6
ELEC 1226	Electrical Level 2 Part 2	6
ELEC 1316	Electrical Level 3 Part 1	6
ELEC 1326	Electrical Level 3 Part 2	6
ELEC 1419	Electrical Level 4	9
TD: Electrical Level 4 (Level 1, Level 2, Level 3, and Level 4 courses):		45

Students interested in pursuing the Technical Studies Associate of Applied Science degree with a concentration in Electrical, please contact the Technical Education Division at 225-216-8367 for more information.