

ELECTRICAL TECHNOLOGY, Certificate - 4370

Engineering & Technology Department

CIP Code: 46.0302

The Electrical Technology certificate provides students with the fundamental knowledge and skills needed within electrical field. Residential, commercial construction, and maintenance applications and presented. Curricular coursework covers basic electrical theory, residential and commercial wiring, safety, the National Electrical Code, and blueprint reading. Students are exposed to the fundamentals of electrical systems through hands-on laboratory exercises that involve mock wiring of commercial and residential systems. The complete program is at the Harrisburg (Mid-Town locations) and York campuses. Students can attend full time or part time.

Career Opportunities

Graduates find employment as general electricians, electrician apprentices, residential electricians, electrical service technicians, electric linemen, electric installers, and industrial maintenance technicians. **(SOC Code: 47-2111 Electricians)**

Competency Profile

This curriculum is designed to prepare students to:

- Demonstrate a variety of technical skills in the electrical field
- Recognize and practice safe and healthy work procedures
- Perform basic electrical mathematical calculations
- Properly and safely handle electrical tools and materials
- Read and interpret blueprints necessary for specified installations
- Interpret the National Electric Code and use it in specific applications
- Demonstrate fundamental procedures of an electrical system used in residential, commercial, and industrial construction
- Solve complex problems of circuit design and analysis

PROGRAM REQUIREMENTS (TOTAL CREDITS = 30)

General Education	Major Requirements	Other Required Courses
	ELOC 153 Fundamentals of Electricity	4
	ELOC 157 Electrical Wiring I	4
	ELOC 163 Electrical Wiring II	4
	ELOC 169 Low Voltage Wiring	3
	ELOC 171 Electrical Service	2
	ELOC 172 National Electrical Code	2
	ELOC 175 Electrical System Troubleshooting	3
	GTEC 101 Safety: OSHA-30 & NFPA-70E	3
	GTEC 105 Customer Service	1
	IA 201 Motors and Controls	4
		30

RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part time students can complete this program by taking one or more courses each semester.

Fall Semester I	Spring Semester I
ELOC 153 4	ELOC 169 3
ELOC 157 4	ELOC 171 2
ELOC 163 4	ELOC 172 2
GTEC 105 1	ELOC 175 3
	GTEC 101 3
	IA 201 4