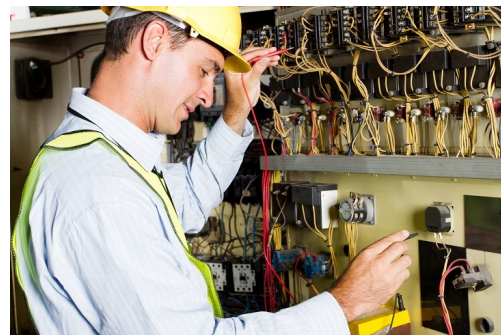# ELECTRICIAN TECHNOLOGY

CERTIFICATE

Program Description

Electrician Technology is a one-year certificate program that teaches students to install, maintain and troubleshoot electrical devices and equipment. Students will gain an understanding to the regulations of residential and commercial wiring and renewable energy.

This program provides the 576 hours of education needed to meet the licensing requirements of the State of Maine and, upon successful completion of the program and completion of 4,000 hours in the field of electrical installations, the State of Maine Electrician Examining Board will allow the student to sit for the journeyman's examination.

Program Learning Outcomes

Students who successfully complete the certificate in Electrician Technology will be able to:

1. Practice the electrical skills of the profession in an ethical and responsible manner.

2. Respond appropriately to a variety of residential, commercial, and industrial electrical situations.

3. Apply knowledge of electrical theory in various projects, including blueprint reading, wiring, pipe bending, motor control, switching, and power circuits.

4. Possess in-depth knowledge of the National Electrical Code.

Electrician Technology Curriculum Requirements - 36 credits

Required Program Courses		Cr		Required General Education		Cr
ELC 101	Basic Electricity I	3		MAT 107	Technical Math	3
ELC 120	Electrical Controls I	3				
ELC 150	Electrical Blueprint Reading	3				
ELC 160	Introduction to Renewable Energy	3				
ELC 180	National Electrical Code	3				
ELC 190	Basic Electronics	3				
ELC 201	Basic Electricity II	3				
ELC 220	Electrical Controls II	3				
ELC 250	Electric Motors	3				
ELC 260	Transformers	3				
ENG 120	Professional Communications	3				

Career Opportunities
Graduates of this program will pursue careers as journeyman electricians.

Electrician Technology Certificate

Electrician Technology Certificate Program Sequencing

Curriculum Requirements	Cr	Grade	Semester
Fall Term I (6 credits)			
ELC 101 Basic Electricity I	3		
MAT 107 Technical Math	3		
Fall Term II (6 credits)			
ELC 150 Electrical Blueprint Reading	3		
ELC 201 Basic Electricity II	3		
Spring Term I (6 credits)			
ELC 160 Introduction to Renewable Energy	3		
ELC 120 Electrical Controls I	3		
Spring Term II (6 credits)			
ELC 220 Electrical Controls II	3		
ELC 190 Basic Electronics	3		
Summer Term I (6 credits)			
ELC 260 Transformers	3		
ELC 250 Electric Motors	3		
Summer Term II (6 credits)			
ELC 180 National Electrical Code	3		
ENG 120 Professional Communications	3		