



## Electrical Technology - Control Maintenance C.A.

Curriculum Code: 0760

Effective: Fall 2020 – Summer 2025

### Description

This certificate is designed to provide students with a background in applied electrical theory and the basic mechanical skills necessary to the practicing electrician in the machine control field.

### Additional Information

Students who have already completed DCTM 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for ELTE 102. Any of these courses may also be used to fulfill the prerequisite for ELTE 108, ELTE 109, and ELTE 111.

Students may substitute ELTE 129 and ELTE 130 for ELTE 131.

### Contact Information

Contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 102	Industrial/Construction Safety	2 / 3
ELTE 108	Practical Electricity I	2 / 3
ELTE 109	Practical Electricity II	2 / 3
ELTE 111	Intro to Industrial Automation	4 / 6
ELTE 122	Industrial Control Electronics	5 / 7
ELTE 131	Machine Controls I	4 / 5
ELTE 132	Control Panel Assembly	2 / 3
ELTE 150	Electric Motor Maintenance	2 / 3
ELTE 232	Machine Controls II	4 / 6
ELTE 260	Programmable Controllers I	4 / 6
ELTE 261	Programmable Controllers II	6 / 8
METS 160	Introduction to Robotics	3 / 4.5

### Total Credit Hours

40 credits / 57.5 billing hours

## Recommended Course Sequence

Semester I (Fall)	Semester II (Spring)
ELTE 102 ELTE 108 (First 8 weeks) ELTE 109 (Second 8 weeks) ELTE 111	ELTE 131 ELTE 132 METS 160
Semester III (Fall)	Semester IV (Spring)
ELTE 150 ELTE 232 ELTE 260	ELTE 122 ELTE 261