



Electrical Technology - Control Maintenance C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0760

Effective: Fall 2022 – Summer 2027

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.

Milestone

Completion of ELTE 108 and ELTE 109 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students who have already completed DCTM 102, ELTE 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for TECH 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 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
TECH 102	General Industry Safety	2 / 3

Minimum Total Credit Hours

40 credits / 57.5 billing hours

Recommended Course Sequence

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

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.