



Electrical Technology - Construction C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0759

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 construction electrician.

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 BLDT 120, ELTE 108, ELTE 109, and ELTE 121.

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
CITN 115	IoT & Automation Fundamentals	5 / 6
ELTA 105	Elect. Industry Orientation	.5 / .5
ELTA 180	Introduction to Fire Alarms	1 / 1
ELTE 108	Practical Electricity I	2 / 3
ELTE 109	Practical Electricity II	2 / 3
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 121	Electrical Mathematics	5 / 6
ELTE 131	Machine Controls I	4 / 5
ELTE 141	National Electrical Code I	4 / 4
ELTE 142	National Electrical Code II	4 / 4
ELTE 145	Electrical Prints for Building	4 / 5
ELTE 150	Electric Motor Maintenance	2 / 3
TECH 102	General Industry Safety	2 / 3

Program of Study Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
DCTM 101	Drafting/Intro to CAD	3 / 4

Minimum Total Credit Hours

40.5 credits / 50.5 billing hours

Recommended Course Sequence

Semester I (Fall)
CITN 115
ELTE 108 (First 8 weeks) – Milestone course
ELTE 109 (Second 8 weeks) – Milestone course
Limited Choice
TECH 102

Semester II (Spring)
ELTA 105
ELTE 112
ELTE 121
ELTE 131
ELTE 141

Semester III (Fall)
ELTA 180
ELTE 145

Semester IV (Spring)
ELTE 142
ELTE 150

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.