

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Electrical Technology, Control/Maintenance
Certificate of Achievement

Curriculum Code: 0760 (Effective Fall 2015 – Summer 2020)

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.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Utility & Energy Systems Program, West Campus Building, Room M127, telephone number (517) 483-1570 (Website: www.lcc.edu/utility/electrical/) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

REQUIREMENTS

REQUIREMENTS		TOTAL: 39 CREDITS
CODE	TITLE	CREDIT HOURS
ELTE 102	Industrial/Construction Safety (See Note 1)	2
ELTE 110	Practical Electricity (See Note 1)	3
ELTE 111	Intro to Industrial Automation	4
ELTE 121	Electrical Mathematics (See Note 1)	5
ELTE 122	Industrial Control Electronics	5
ELTE 131	Machine Controls I	4
ELTE 150	Electric Motor Maintenance	2
ELTE 232	Machine Controls II	4
ELTE 260	Programmable Controllers I	4
ELTE 261	Programmable Controllers II	6

LIMITED CHOICE REQUIREMENTS

TOTAL: 2 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: Electrical Specialization		2 Credits
ELTE 112	Basic Wiring Installation	2
ELTE 132	Control Panel Assembly	2

MINIMUM TOTAL 41

NOTES:

1. 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 110 and ELTE 121.
2. To receive a certificate of achievement from Lansing Community College, a student must maintain a grade point average of 2.0 or above in the courses required for the certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

I – Fall	II – Spring	III – Fall	IV – Spring
ELTE 102	ELTE 121	ELTE 232	ELTE 122
ELTE 110	ELTE 131	ELTE 260	ELTE 261
ELTE 111	ELTE 150		
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