

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Electrical Machine Controls
Certificate of Completion

Curriculum Code: 0966 (Effective Fall 2016 – Summer 2021)

This certificate is designed to provide students with entry level skills in the understanding of basic electrical theory, basic electrical operating characteristics of industrial machinery, and basic operation of programmable logic controllers. This curriculum would be an excellent choice for students wishing to enter an industrial electrical apprenticeship or for students in other industrial trades who wish to have a basic understanding of electrical control of industrial machines. All of the course work may be applied toward the Electrical Technology, Associate in Applied Science Degree.

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 Electrical Technology 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: 26 CREDITS
CODE	TITLE	CREDIT HOURS
ELTE 102	Industrial/Construction Safety (See Note 1)	2
ELTE 108	Practical Electricity I (See Note 1)	2
ELTE 109	Practical Electricity II (See Note 1)	2
ELTE 131	Machine Controls I	4
ELTE 132	Control Panel Assembly	2
ELTE 232	Machine Controls II	4
ELTE 260	Programmable Controllers I	4
ELTE 261	Programmable Controllers II	6
MINIMUM TOTAL		26

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 108 and ELTE 109.
2. To receive a certificate of completion 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 wishing to complete this certificate in less than four semesters, or students who for any reason are unable to follow the course sequence suggested below, should contact a program advisor for help with adjustments.

I	II	III	IV
ELTE 102	ELTE 131	ELTE 232	ELTE 261
ELTE 108	ELTE 132	ELTE 260	
ELTE 109			