



**INDUSTRIAL ELECTRONICS MAINTENANCE  
Certificate Program**

Career Curriculum 00ELT1010  
Certificate Program  
Minimum Hrs. 43  
Major Code: 1.2 150303J

**FALL SEMESTER**

Dept. No.		Hrs.	Gr.
ELT 102	Basic Electricity and Wiring	4	___
IDM 210	Hydraulics and Pneumatics	4	___
MAT 120	Elementary Statistics OR MAT 113 Introduction to Contemporary Mathematics OR MAT 106 Technical Mathematics	3-4	___
MFT 103	Industrial Robots and PLCs	3	___
		14-15	

**OPTIONAL**

Dept. No.		Hrs.	Gr.
ATI 200	Applied Technologies Internship	1-3	___

**SPRING SEMESTER**

Dept. No.		Hrs.	Gr.
ELT 103	Applied DC/AC Circuits	4	___
ELT 150	Applied Solid State Electronics	4	___
ELT 224	Power Distribution and Motors	3	___
IDM 120	Safety and Environmental Management	2	___
MFT 201	PLC Manufacturing Systems	3	___
		16	

**FALL SEMESTER**

Dept. No.		Hrs.	Gr.
ELT 111	Digital Electronics	6	___
ELT 151	Applied Solid State Circuits	4	___
MAC 180	Blueprint Reading	3	___
		13	

*John A. Logan College reserves the right to modify this curriculum guide as needed.  
Please verify with your academic advisor the accuracy and time lines of this document.*

**Effective Date: Fall 2011**

**Additional Information:** This is a certificate program that emphasizes DC/AC fundamentals, solid state electronics, and industrial electronics applications. Upon completion of this program, the student will be awarded a certificate in industrial electronics maintenance. For students entering the program with prior education or on-the-job experience, it is possible to test out of the basic courses. For additional information, students should see their advisor or the chairperson of the Applied Technologies.

**Career Opportunities:** The graduate of this program will be qualified for an entry level position in any industrial setting as an industrial electronics maintenance specialist.