



**INDUSTRIAL MAINTENANCE ENGINEERING
Degree Program**

Career Curriculum 00ELT3012
Associate in Applied Science
Minimum Hrs. 68
Major Code: 1.2 150612C

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	102	Basic Electricity and Wiring	4	___
ELT	111	Digital Electronics	3	___
MAT	111	Pre-Calculus	5	___
MFT	103	Industrial Robots & PLCs	3	___
ENG	101	English Composition I ² OR	3	___
		ENG 113 Professional Technical Writing ²	16-18	___

SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	151	Applied Solid State Circuits	3	___
ELT	214	A+ Preparation IT Technician	3	___
IDM	210	Hydraulics & Pneumatics	4	___
PHY	155	College Physics I	5	___
			15	___

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	103	Applied DC/AC Circuits	4	___
ELT	104	Introduction to VFDs	2	___
ELT	112	Digital Electronics II	3	___
ELT	150	Applied Solid State Electronics	3	___
ELT	218	Introduction to Network Technologies	3	___
MFT	201	PLC Manufacturing Systems	3	___
			18	___

SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	220	Linear Integrated Circuits	3	___
ELT	224	Power Distribution and Motors	3	___
IDM	120	Safety & Environmental Management	2	___
MAC	180	Blue Print Reading	3	___
PSY	132	General Psychology	3	___
SPE	115	Speech OR SPE 116 Interpersonal Communication	3	___
			17	___

OPTIONAL

FIRST YEAR – SUMMER SEMESTER

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

¹ Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

² Requires a grade of "C" or higher.

Fall only courses:

ELT 102 ELT 214
ELT 111
ELT 151
IDM 210
MFT 103

Spring only courses:

ELT 103 IDM 120
ELT 104 IDM 207
ELT 150 MFT 201
ELT 224 ELT 218
ELT 220

The Industrial Maintenance Engineering AAS Degree (00ELT3012) is an ICCB approved extension of the Electronics Technology AAS Degree (00ELT3010) and is the parent program to:

- Industrial PLC Systems Certificate (00ELT3013)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

*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 2017

Career Opportunities: Industrial Maintenance Engineering technicians solve technical problems in research and development, manufacturing, sales, construction, inspection, and maintenance. In manufacturing, the Industrial Maintenance Engineering technician many assist engineers and scientists ,especially in research and development. Duties many include quality control, inspecting products and processes, conducting tests, repairing and maintaining of industrial equipment or collecting data.