MANUFACTURING ENGINEERING TECHNOLOGY - INDUSTRIAL ELECTRICAL TECHNICIAN, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6215

Effective May 2023

Division of Engineering, Business and Information Technologies (http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/)

The industrial electrical technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level electrical maintenance technician. The graduate will repair, test, adjust or install electronic equipment. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

First Year

Fall Semester

		Hours
CISS 121	MICROCOMPUTER APPLICATIONS I	3
ELCT 111	ELECTRICAL CIRCUITS I	3
ENGL 161	COLLEGE COMPOSITION I	3
ENGR 120	INTRODUCTION TO ENGINEERING	1
MTHM 155	TECHNICAL MATHEMATICS I	4
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY [1]	1
	Hours	**15**

Spring Semester

AETC 121	PROGRAMMABLE LOGIC CONTROLLERS	3
CMMC 151	ORAL COMMUNICATION	3
ELCT 112	ELECTRICAL CIRCUITS II [2]	4
ELCT 121	DIGITAL ELECTRONICS [2]	4
TECN 133	MECHANICAL SYSTEMS	3
	Hours	**17**

Summer Semester

ELCT 287	WORK-BASED LEARNING I - ELCT [2,3]	1
	Hours	**1**

Second Year

Fall Semester

AETC 223	PROGRAMMABLE LOGIC CONTROLLERS II [4]	3
AETC 241	INSTRUMENTATION AND CONTROL	3
ELCT 211	ELECTRICAL POWER AND DEVICES [2]	4
PHYC 150	GENERAL PHYSICS I [2]	4
	Hours	**14**

Spring Semester

ELCT 223	ELECTRICAL BLUEPRINT READING	2
ELCT 224	INDUSTRIAL ELECTRONICS [2]	4
QLTY 236	RELIABILITY CENTERED MAINTENANCE [4]	3
Arts and Humanities Elective [5]		3
Social Sciences Elective [6]		3
	Hours	**15**
	Total Hours	**62**

[1]

A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 13 or more credit hours.

[2]

Indicates that this course requires a prerequisite.

[3]

This course offers an opportunity for experiential learning.

[4]

Indicates that this course has a prerequisite or may be taken concurrently.

[5]

Select any Arts and Humanities Ohio Transfer 36 (http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/) course.

[6]

Select any Social Science Ohio Transfer 36 (http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/) course.

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your advising team (https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling/).

More program information can be found on our website. (https://www.lorainccc.edu/engineering/manufacturing-engineering/associate-of-applied-science-in-manufacturing-engineering-technology-industrial-electrical-technician/)

1. Communicate effectively in an industrial manufacturing environment.
2. Apply math, science, and engineering, technology principles to solve problems in an industrial manufacturing facility.
3. Demonstrate professional and ethical behavior.
4. Perform industrial electrical manufacturing tasks in a safe manner.
5. Function effectively when performing the tasks of an industrial electrical technician by applying relevant technical knowledge and skills in the industrial manufacturing setting.
6. Recognize the need to maintain currency with equipment, tools and devices used by the industrial electrical technician in an industrial manufacturing environment.
7. Complete industrial electrical maintenance exercises effectively.