AUTOMATION ENGINEERING TECHNOLOGY - MAINTENANCE TECHNICIAN, SHORT-TERM TECHNICAL CERTIFICATE

Curriculum Code #6181

Effective May 2025

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

This automation engineering technologies short-term certificate will train students to become maintenance technicians. This certificate offers the broad-based skills and hands-on experience needed to start in a career maintaining high technology systems that utilize automated control of electrical, mechanical, hydraulic and pneumatic systems. Learn how to program, troubleshoot, repair and maintain the automated systems that are used in a variety of fields. This certificate can be applied towards the automation engineering technology systems specialist associate degree. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

Preferred Sequence

Fall Semester

		Hours
AETC 115	INDUSTRIAL ROBOTICS I	3
AETC 121	PROGRAMMABLE LOGIC CONTROLLERS	3
ELCT 111	ELECTRICAL CIRCUITS I	3
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY [1]	1
TECN 121	FLUID POWER SYSTEMS [2]	3
	Hours	**13**

Spring Semester

AETC 223	PROGRAMMABLE LOGIC CONTROLLERS II [3]	3
ELCT 211	ELECTRICAL POWER AND DEVICES [3]	4
AETC 215	INDUSTRIAL ROBOTICS II [2]	3
TECN 133	MECHANICAL SYSTEMS [2]	3
	Hours	**13**
	Total Hours	**26**

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 12 or more credit hours.

2

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

3

Indicates that this course requires a prerequisite.

Program Contact(s):

Scott Zitek
440-366-7024
rzitek@lorainccc.edu

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/automation-engineering/maintenance-technician-short-term-certificate/)

Credit for Prior Learning (PLA) options may be available for your program. For more information, please visit our website: www.lorainccc.edu/PLA (http://www.lorainccc.edu/PLA/)

Program Learning Outcomes

1. Apply appropriate techniques and tools in the industrial automation field.

2. Demonstrate the programing of robots and programmable controllers to industry standards.