

PROGRAMMABLE LOGIC CONTROLLERS CERTIFICATE

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Programmable Logic Controllers (PLCs) are the computers used in industry to control manufacturing equipment. Students completing the Programmable Logic Controllers Certificate are able to work with a variety of PLC applications in advanced manufacturing. Students learn how to install, program, and repair PLCs, and work with the equipment those PLCs control. Students will also learn how to perform preventative maintenance.

Electronic Engineering Technology Major

Program Learning Outcomes

Upon completion, the student will be able to:

1. Successfully troubleshoot and provide correct, effective solutions for programming and maintaining PLCs.
2. Apply their growing set of skills to creatively solve technical problems.
3. Design, program, and operate equipment safely.
4. Analyze the functions of manufacturing technology.

Technical Standards

See here for details.

Programmable Logic Controllers (PLC)

First Year

First Semester		Hours
SDE 1010	First Year Experience	1
EET 1110	Circuit Analysis I	3
AMT 1070	Basic Electricity and Electronics	3
EET 2911	Programmable Logic Controllers	3
IMT 1911	Technical Math I	3
AMT 1040 or MET 1000	Blueprint Reading and Schematics or Engineering Graphics with AutoCAD	2
Term Hours		15

Second Semester

EET 1330	Digital Circuits	4
EET 2920	Advanced Programmable Controllers	3
EET 2030	Motor Controls	3
CPT 1250	Computer Applications in the Workplace	3
AMT 1020	Preventive Maintenance	2
Term Hours		15
Total Hours		30