Programmable Logic Controllers

Course Information

mation Engineer Technology State Curriculum Committee	
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7/2014	
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Credit Hours: 3

Description:

This course examines types, installation and troubleshooting of programmable logic controllers (PLC). Hardware and programming aspects, as well as ladder logic symbols and operations necessary to develop a PLC program are covered in this course.

Competencies

- 1. Demonstrate the safety procedures when working with programmable logic controllers
- 2. Identify the types and components of a programmable logic controller
- 3. Connect a programmable logic controller to a programming device
- 4. Select the proper wiring and terminations of inputs and outputs
- 5. Identify the numbering systems used in programmable logic controllers
- 6. Identify the symbols used in programmable logic controller relay ladder logic
- 7. Develop a functional programmable logic controller program
- 8. Document a programmable logic controller program
- 9. Demonstrate the process of programmable logic controller system troubleshooting