

Corporate Office

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Level 3 PLC (Programmable Logic Controllers) Program Design

Course Description: The focus of this course is writing programs using RSLogix (or other PLC programming software used by the student in their work environment) to drive more complex components such as variable frequency drives and analog inputs and outputs. Emphasis will be on developing PLC programs and using the PLC as a diagnostic tool for troubleshooting, including scaling of devices.

Prerequisites: Level 1 and 2 PLC or equivalent knowledge, and/or Variable Frequency Drive knowledge.

Textbook: Programmable Logic Controllers

Learning Objectives:

- Use advanced PLC programming knowledge to write and troubleshoot PLC programs using simulation software
- Use advanced PLC programming knowledge to write and troubleshoot PLC programs using RSLogix software
- Use of advanced applications for the scaling of Analog I/O
- Debug software problems
- Wire PLC Input and Outputs to external interfaces
- Operate Variable Frequency Drives and others, using PLC programs