UNITED ELECTRIC SUPPLY
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Educational Event

Unity Programming 3-Day Class

Schneider Electric

Course Overview

This course will cover tasks common to all systems that run under Unity Pro XL. During the course, the student will be exposed to the IEC programming languages: ladder diagram, function block diagram, structured text and sequential function chart. In addition, the student will be instructed in the basic principles of operation of a Schneider Electric Programmable Automation Controller using IEC type configuration and programming.

Objectives

- Use Unity Pro software to configure a Schneider Electric M340, PLC and associated input/output (I/O)
- Program, at a basic level, a Schneider Electric M340 PLC to control a simple machine using the IEC programming editors Ladder Diagram (LD) and Function Block Diagram (FBD) as found in Unity Pro software
- Implement derived function blocks and derived data types at a basic level
- Demonstrate an understanding of function blocks, derived function blocks, and derived data types and their uses in a Unity Pro program
- Create, save, download, upload, test, monitor, search, and debug an IEC PLC application using Unity Pro software
- Document a Unity Pro PLC application using Unity Pro software

Topics / Syllabus

- Introduction to automation systems
- Unity product overview and design considerations, including M340, and Quantum
- The PLC's run-time operating system
- Setting Unity options, preferences, and system configuration
- Data objects and data types
- Basic Unity control programming operations
- Implementation of Ladder Logic and Function Block Logic
- Basic discrete control circuits in Unity IEC
- Basic derived function blocks in Unity IEC
- Basic mathematical operations in Unity IEC
- Basic sequential processing in Unity IEC
- Basic analog processing in Unity IEC
- System diagnostics using Unity
- Basic security, archive, export, import, and document functions in Unity

To Book a Class

Contact Julie Rosa for more information
Phone: 302.324.3370 | Email: education@unitedelectric.com

Who should attend:

Engineering & maintenance personnel who need to modify and control system programs

Training Time:

3 - 8 hour days
Flexible times to meet your needs

Dates:

Call to schedule

Cost Per Student:

Call for quote

Training Location:

Our location or yours