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Control Expert Introduction Application Programming

DLCTECI2037019

Course Abstract:

Instructor Led Course:

This is an Instructor led course designed for Industrial Automation and Control Systems Engineering and Technical personnel, who require familiarity with the features of Unity Pro, allowing them to work with Unity Pro capable Schneider Electric Controllers in a variety of industrial control applications. This course will cover tasks common to all systems that run under Unity Pro.

Audience:

Industrial systems engineers, Technical Support Specialists, Industrial control Maintenance Technicians or System Programmers or anyone that needs to use Unity Pro to open, modify, or search in a Unity Pro project.

Topical Outline:

This course consists of the following lessons:

- Unity Product Overview
- Design Considerations
- Unity System Configuration
- Export, Import and Archival
- Functions in Unity
- Memory, Addresses, Variables and Datatypes
- Basic FBD or LD Control Circuits in Unity IEC

Prerequisites and required tools:

Familiarity with the Windows Interface.

An understanding of Industrial processes requiring automation would be helpful.

Previous instruction in Automation (PLC) systems and programming at any level would also be beneficial.

Objectives:

Upon successful completion of this course the learner will be able to:

Use Unity Pro software to configure a Schneider Electric M340, M580, Quantum, Momentum, or Atrium PLC and associated I/O.

Program, at the basic level, any of the above Schneider Electric controllers to control an application using the IEC programming editors FBD, LD, or ST as found in Unity Pro Software.

Implement Derived Functions blocks at the basic level.

State the purpose of 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 and Print a Unity Pro PLC application using Unity Pro software

Course Length: 3 Days

Course Code: DLCTECI2037019

Course Tuition: \$1890

Maximum Class Size: 12