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Allen Bradley ControlLogix & PanelView Plus Course Level 2

Software: RSLogix 5000

PLC Type: Allen Bradley ControlLogix

Duration: 5 Days

Pre-requisites: Attended ControlLogix Level 1

Maximum Delegates: 6

Brief Description

The course is aimed at personnel who have completed the ControlLogix Basics / Systems Course. This course covers intermediate and advanced programming techniques, data types, instructions and languages.

Course Content

- RSLinx advanced features
- Use of DHCP Server
- EtherNet Comms advanced configuration
- Advanced IO Hardware Features
- Reading and Writing Data to Input and Output Cards
- Use of diagnostics Output Cards
- PLC to PLC Comms MSG instruction
- Producer / Consumer Communications
- Linking to Remote Racks over EtherNet
- Linking to Remote Racks over ControlNet
- Linking to Flex IO over EtherNet
- Linking to Flex IO over ControlNet
- Configuration of Analog cards, Scaling etc
- Advanced Program Design and Operation
- Period and Event Driven Tasks
- Add On instructions (Function Blocks)
- Intermediate Data types, Arrays, User Defined data types
- IO Mapping
- Intermediate and advanced Instructions
- Masked Move, Compute CPT
- System Value instructions, GSV, SSV
- Systems with Multiple CPU
- Move Logical Instructions Masked Move, MVM

- Bit Field Distribute, BTD
- File instructions, File Fill, FFL, Copy COP
- Bit Shift instructions, BSL, BSR
- Program Control Instructions, JMP, LBL, RET, MCR, SBR, AFI
- Passing Parameters between program blocks
- Software Tools
- Flash upgrading of Modules
- Tag Data Monitor Tool
- Exporting Data to Excel
- Introduction to FBD (Function Block Diagram) Programming
- Communications between PLC system, HMIs
- Advanced PanelView Plus functions.
- Users and password setup
- Programming Tips and Tricks
- Fault Finding Tips and Tricks

Course Equipment (per delegate)

- ControlLogix, CompactLogix or FlexLogix PLC (systems designated to suit delegates requirements)
- PC or Laptop
- Simulator