

[Allen Bradley ControlLogix Systems Course Level 2](#)

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Software	RSLogix 5000
Duration	5 Days
PLC-Type	Allen Bradley ControlLogix
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 Documentation

- * Level 2 Training manual

Course Content

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- * Advanced Hardware Features
- * Reading and Writing Data to Input and Output Cards
- * Use of diagnostics Input and Output Cards
- * Use of Analog cards, PID, Scaling etc
- * Advanced Program Design and Operation
- * Period and Event Driven Tasks
- * Controller Fault Handler
- * Controller Power Up Handler
- * Add On instructions (Function Blocks)
- * Intermediate Data types, Arrays, User Defined data types
- * Intermediate and advanced Instructions
- * Masked Move, Compute CPT,
- * System Value instructions, GSV, SSV
- * Systems with Multiple CPUs
- * Communications between PLC system, SCADA and HMIs
- * Linking to ControlLogix via the internet
- * Messaging instructions MSG
- * Producer and Consumer Tags
- * Move Logical Instructions Masked Move, MVM,
- * Bit Field Distribute, BTD
- * File instructions, File Fill, FFL, Copy COP
- * File Arithmetic and Logic FAL
- * Bit Shift instructions, BSL, BSR,
- * FIFO Instructions FFL, FFU, LIFO Instructions LFL, LFU
- * Sequencer Instructions, SQI, SQO, SQL

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- * Program Control Instructions, JMP, LBL,RET, MCR, SBR, AFI
- * Passing Parameters between program blocks
- * PID Instructions
- * Software Tools
- * Flash upgrading of Modules
- * Tag Data Monitor Tool
- * BOOTP DHCP Server
- * Remote Monitoring via Ethernet
- * Exporting Data to Excel
- * Intermediate and Advanced Programming Languages
- * Introduction to SFC Programming
- * Introduction to FBD (Function Block Diagram)Programming
- * Introduction to ST (Structured Text) Programming
- * Programming Tips and Tricks
- * Fault Finding Tips and Tricks

Equipment

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

Solutions, Not Courses.