

# V Series Controller Training



**Location: Roanoke, Virginia**

- 5-day training course for engineering and maintenance personnel
- Controller hardware and software operation, maintenance and troubleshooting
- Hands-on classroom exercises
- Presented by engineers experienced in the configuration, programming, testing, and troubleshooting of the V Series Controller

**Students will learn:**

- ✓ Fundamentals of operation for the V Series Controller Model 3000
- ✓ The V Series Engineering Tool
- ✓ To monitor, maintain and troubleshoot the V Controller system
- ✓ To recognize normal and abnormal operation
- ✓ The terminology and meaning of the diagnostic messages
- ✓ To replace and reconfigure components

## Who should attend?

Qualified engineers and technicians involved in the operation, maintenance and programming of a V Series Controller system will benefit from this course.

## Course Overview

The V series Controller course provides instruction on the hardware and software for engineering and maintenance personnel to understand the operation, maintenance, programming, and troubleshooting of systems with multiple V series Controllers. Hands-on classroom and lab exercises include hardware identification, I/O networks, and the Vtool programming and configuration software tool.

## Prerequisites

- A basic working knowledge of programmable logic controllers and industrial control
- A working knowledge of sound safety procedures
- Reasonable personal computer and Microsoft® Windows® skills
- Course materials will be presented in English

## Student Materials

A notebook with paper and electronic copies of the following materials are part of the course package:

- Class presentations
- V Series Controller & Vtool Technical manuals
- Sample control system topology



## Topics

### Introduction and overview of the Integrated V Series Controller

### Description and definition of terminology and acronyms

### Hardware Introduction and Overview

### System and Station Topology

### Summary of Controller functions

### System Configuration and Module Parameters

### V Engineering Tool

- Client/Server Configuration

### Variables

- Local/Global
- I/O Local/Remote

### Program Editor

- Ladder Diagrams
- Sequential Function Charts

### Creation of Function Blocks

### Arrays and Structures

### Program Monitor

### LAN Configuration of Ethernet

### TC Network

### Permissive Diagnostics

### Troubleshooting and replacing hardware

### ODG (Online Data Gathering) Tool for collecting data and displaying results on a trend graph

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#### For more information please contact:

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