# **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
- $\sqrt{\phantom{a}}$ 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.

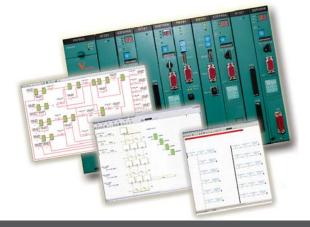
## **Prerequisites**

- A basic working knowledge of programmable logic controllers and industrial control
- A working knowledge of sound safety procedures
- Reasonable personal computer and Microsoft<sup>®</sup> Windows<sup>®</sup> 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

For more information please contact:

Donald Reed: 540-283-2126 Email: donald.reed@tmeic.com