

nv Unified Controller

TMEiC
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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 nv Series Controller

Students will learn:

- ✓ Fundamentals of operation for the nv Series Controller
- ✓ The Vtool programming tool
- ✓ To monitor, maintain and troubleshoot the nv Controller system
- ✓ To recognize normal and abnormal operation
- ✓ The terminology and meaning of the diagnostic messages
- ✓ To replace and reconfigure components

nv Unified Controller Training

Who should attend?

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

Course Overview

The nv 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 nv Series Controllers. Hands-on classroom and lab exercises include hardware identification, I/O networks, and the Vtool programming and configuration software tool.

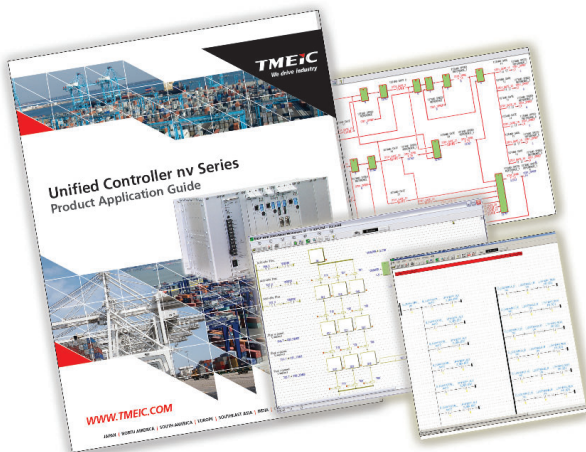
Prerequisites

- 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
- Nv Series Controller & Vtool Technical manuals
- Sample control system topology



Topics

Introduction and overview of the Integrated nv Series Controller

Description and definition of terminology and acronyms used

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-net and TC-net I/O 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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