

DEVICENET SOFTWARE TUTORIAL

"Mastering DeviceNet Configuration, Troubleshooting, and Integration in a Single Day"

Schedule

Date	Venue	Fees (Online Training)
09 Dec 2026	Online (Live Virtual)	USD 450 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

DeviceNet is a widely used industrial network protocol that enables communication among devices such as sensors, actuators, and controllers in automation environments. Understanding how to configure, monitor, and troubleshoot DeviceNet using software tools is essential for technicians and engineers working with modern control systems.

This focused 1-day tutorial delivers practical, hands-on guidance for working with DeviceNet software. Participants will learn how to set up a network, configure nodes, monitor traffic, and resolve common issues—boosting their confidence in managing DeviceNet systems effectively and efficiently.

Objectives

By the end of this course, participants will be able to:

- Understand DeviceNet architecture and software configuration tools
- Set up and configure DeviceNet nodes and network topology
- Use software tools to monitor and troubleshoot communication issues
- Interpret error codes, status indicators, and diagnostic messages
- Apply best practices in network planning and maintenance

Why Attend

- To gain practical knowledge of DeviceNet configuration and diagnostics
- To enhance troubleshooting skills using real-time software tools
- To reduce system downtime by resolving communication errors quickly
- To support automation and control teams in industrial environments
- To strengthen overall understanding of industrial network protocols

Target Audience

This program is designed for:

- Automation and control technicians
- Maintenance engineers and electrical engineers
- System integrators and project engineers
- Plant operations and support staff working with PLC systems

Individual Benefits

Key competencies that will be developed include:

- DeviceNet software setup and configuration
- Troubleshooting network communication and node errors
- Network scanning, device ID allocation, and data mapping
- Interpretation of diagnostic logs and traffic analysis
- Hands-on experience with leading DeviceNet tools

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Faster identification and resolution of field communication issues
- Improved equipment uptime and system reliability
- Reduced dependency on external support for configuration and diagnostics
- Standardized practices for DeviceNet deployment and maintenance
- Enhanced automation team capability and efficiency

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings: DeviceNet protocol overview and software environment
- Live Demonstrations: Configuration, diagnostics, and troubleshooting techniques
- Hands-On Exercises: Real-time setup using virtual labs and emulators
- Peer Exchange: Troubleshooting challenges and user experiences
- Tools: Use of Rockwell/ODVA DeviceNet tools and diagnostics software

Course Outline

Detailed 1-Day Course Outline

- **Module 1: DeviceNet Basics and Software Tools** • Overview of DeviceNet protocol, components, and system architecture • Introduction to DeviceNet configuration software and toolsets
- **Module 2: Node Configuration and Network Setup** • Scanning devices, assigning node IDs, and setting baud rates • Creating and saving network configuration files
- **Module 3: Diagnostics and Troubleshooting** • Live monitoring, error detection, and interpretation of fault codes • Managing disconnected devices and addressing wiring faults
- **Module 4: Maintenance and Best Practices** • Documentation, backup, and updates • Tips for long-term network stability and maintenance

Certification

Participants will receive a Certificate of Completion in DeviceNet Software Tutorial, recognizing their ability to configure, maintain, and troubleshoot DeviceNet networks using professional software tools.

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