

DeviceNet and RSNetWorx Configuration and Troubleshooting

OEM: Rockwell Automation • Duration: 3 Days (24 hrs) • Code: CCP164

COURSE MODULES & TOPICS

Objectives

- Identify DeviceNet network components and design a DeviceNet cable system
- Create a DeviceNet network configuration• Commission nodes on a DeviceNet network
- Configure a 1756-DNB DeviceNet scanner module
- Map inputs and outputs on a DeviceNet network
- Manage DeviceNet EDS files
- Configure Automatic Device Recovery (ADR) on a DeviceNet network
- Communicate on a DeviceNet network using explicit messaging
- Troubleshoot a DeviceNet network using:
 - RSNetWorx for DeviceNet software
 - RSLogix 5000 software
- DeviceNet and ControlLogix hardware indicators
- Troubleshoot duplicate node addresses on a DeviceNet network
- Restore a malfunctioning DeviceNet network to normal operation

Prerequisites

- Experience operating a personal computer within a Microsoft Windows environment
- Completion of the Studio 5000 Logix Designer Level 1: ControlLogix System Fundamentals course (CCP146) or knowledge of common ControlLogix terminology and the ability to program and interpret basic ladder logic instructions in RSLogix 5000 software

Student Materials

- Student Manual Contains the topical outlines and exercises
- Used to follow presentations, take notes, and work through exercises
- DeviceNet and RSNetWorx Troubleshooting Guide Contains easy-to-use flowcharts and graphics
- Covers five DeviceNet scanner modules
- Helps complete troubleshooting tasks in class and on the plant floor
- DeviceNet and RSNetWorx Procedures Guide Provides step-by-step procedures for configuring, maintaining, and troubleshooting a DeviceNet network
- Covers five DeviceNet scanner modules
- Helps complete troubleshooting tasks in class and on the plant floor

Next Level Learning

- ControlNet and RSNetWorx Design and Troubleshooting course (CCP173)

Course Agenda

Day 1

- Identifying DeviceNet Network Components
- Designing a DeviceNet Cable System • Creating a DeviceNet Network Configuration
- Commissioning Nodes on a DeviceNet Network
- Configuring a 1756-DNB DeviceNet Scanner Module for a ControlLogix systems

Day 2

- Mapping Inputs and Outputs to 1756-DNB Scanner Module on a DeviceNet Network (ControlLogix)
- Managing DeviceNet EDS Files
- Configuring the Automatic Device Recovery (ADR) Feature for a DeviceNet Network
- Communicating on a DeviceNet Network Using Explicit Messaging with the ControlLogix platform
- Integrated Practice: Modifying a DeviceNet Network Configuration

Day 3

- Troubleshooting a DeviceNet Network Using RSNetWorx for DeviceNet Software
- Troubleshooting Using DeviceNet and ControlLogix Hardware Indicators
- Troubleshooting a DeviceNet Network Using RSLogix 5000 Software
- Troubleshooting Duplicate Node Addresses on a DeviceNet Network
- Integrated Practice: Restoring a Malfunctioning DeviceNet