

P-5000Comm – ControlNet/DeviceNet/Ethernet/IP Communication 5000 Modules

Course Overview

About this course

Coe Newnes McGehee offers a comprehensive communication course using the 1756-CNB and 1756-DNB module training. The ControlLogix controller can be incorporated into a number of different types of communication structures; this course focuses on the ControlNet and DeviceNet platforms. We will work through setup, configuration and troubleshooting of these two systems. This course has been developed for today's sophisticated system designs. Highly qualified training personnel, the latest technology and hands-on training equipment are combined to make these seminars truly beneficial. The limited class sizes ensure more individual attention is offered to each trainee.

Who should attend?

Maintenance electricians and millwrights that acquire skills in understanding ControlNet/DeviceNet communication techniques using the 1756-CNB and 1756-DNB communication modules.

Pre-requisites

To get the most out of this course it is recommended that students be familiar with computers and Windows. If they have not used Windows then they should be familiar with getting around Windows and the RSLogix software prior to this course.

Provided materials

- Student Workbook
- PowerPoint Presentations
- Access to Hardware and PC Computers



- Written Literature
- Training Lectures

Course Content

- Introduction
- Component and Operation
- Hardware
- Cabling
- Scheduling
- I/O Addressing
- RSLogix5000
- RSNetworkx for ControlNet
- RSNetworkx for DeviceNet
- RSNetworkx for Ethernet/IP

Features and benefits

- Experienced field trained instructors
- Interactive training sessions
- Practical do's and don'ts
- Question and answer sessions provide valuable information
- Tips and techniques for troubleshooting and maintaining your system

For more information contact our Technical Training group: Tel 250.833.3026
Email: training@coenm.com

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Day 1

- ControlNet setup and hardware
- Controller configuration
- Scheduled and unscheduled messaging
- Producer/consumer
- MSG – message instruction
- Remote racks – connection and scheduling
- I/O communication
- Understanding RPI and NUT
- RSNetworkx for ControlNet overview
- Scheduling ControlNet connections
- Apply logic to test connection
- Hands-on free time to review course materials

Day 2

- DeviceNet setup and hardware
- Controller configuration
- RSNetworkx for DeviceNet
- Scheduling DeviceNet connections
- Mapping I/O
- Apply logic to test connections
- Utilize ADR (Auto Device Recovery)
- Utilize AAR (Auto Address Recovery)
- Troubleshoot and test
- Hands-on free time to review course materials

Day 3

- Finish ControlNet/DeviceNet content
- An Introduction to the Ethernet Communications
 - Hardware
 - Configuration
 - I/O Connection Rack Optimized
 - I/O Direct Connection
 - Flex I/O
 - Produced and Consumed tags
- Hands on labs / Troubleshooting
- Working in teams complete a number of labs for DeviceNet/ControlNet/Ethernet/IP connections
- Review ControlNet/DeviceNet/Ethernet platforms
- Final lab to develop connection using ControlNet to DeviceNet structure, map and test I/O
- Wrap up
- Hands-on free time to review course materials