

# COURSE DESCRIPTION

## ControlNet™ and RSNetWorx™ Networks

### COURSE AGENDA

#### Day 1

- Designing a ControlNet and RSNetWorx Media System
- Configuring a ControlNet and RSNetWorx Network Offline
- Going Online to a ControlNet and RSNetWorx Network
- Entering Scheduled ControlNet and RSNetWorx I/O Data Connections for Logix5000 Controllers

#### Day 2

- Entering ControlNet and RSNetWorx Messages for Logix5000 Controllers
- Entering Scheduled ControlNet and RSNetWorx I/O Data Connections for PLC-5 Processors
- Entering ControlNet and RSNetWorx Messages for PLC-5 Processors
- Integrated Practice: Configuring a ControlNet and RSNetWorx Network

## ControlNet™ and RSNetWorx™ Design and Configuration



**COURSE NUMBER: CCP170**

#### *Course Purpose*

This course provides the skills necessary to efficiently design and configure ControlNet and RSNetWorx-capable hardware and software into an effective control network. Students gain these skills from the ground up, practicing each step in the design and configure process from choosing the correct cable to configuring the connections that will transmit data across that cable.

After completing this course, students will have designed a ControlNet and RSNetWorx media system that will serve as the backbone of their network and will have configured ControlNet and RSNetWorx-capable hardware to behave as a deterministic and repeatable control network. More importantly, students will have configured data connections between devices that transmit data where they need it, when they need it.

#### *Who Should Attend*

Individuals who are responsible for designing and configuring a new ControlNet and RSNetWorx network or managing and modifying an existing ControlNet and RSNetWorx network should attend this course.

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**Rockwell  
Automation**

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## ControlNet™ and RSNetWorx™ Networks

### **Prerequisites**

To successfully complete this course, the following prerequisites are required:

- Ability to perform basic Microsoft Windows® tasks
- Ability to program ladder logic using Windows-based software such as RSLogix™ 5, RSLogix 500, or RSLogix 5000 software

### **Student Materials**

To enhance and facilitate students' learning experience, the following materials are provided to each student as part of the course package:

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises.
- *ControlNet and RSNetWorx Procedures Guide*, which contains clear and concise step-by-step procedures for performing the design and configuration tasks addressed in class, as well as other tasks associated with the configuration and management of a ControlNet network using RSNetWorx for ControlNet, RSLogix 5, RSLogix 5000, and RSLinx® software.
- *ControlNet Documentation Reference Guide*, which contains excerpts from several different technical publications. This guide contains the most frequently referenced design limitation and configuration information and is a quick and efficient on-the-job resource for ControlNet users.

### **Hands-On Practice**

Hands-on practice is an integral part of learning and this course offers extensive hands-on opportunities. Using RSNetWorx for ControlNet, RSLinx™, RSLogix 5, and RSLogix 5000 software, a functional specification, and a workstation containing real and simulated hardware components, students will practice the tasks involved in designing and configuring a ControlNet network. This experience can then be directly applied to the students' ControlNet applications.

### **Next Learning Level**

Once students have mastered the skills covered in this course, they can expand their knowledge of ControlNet-capable devices specific to their application by attending other Rockwell Automation training courses. One suitable path would include the *RSLogix 5000 Level3: Project Development (CCP143)* course, which expands on the use of Logix5000 systems with ControlNet networks.

### **Course Length**

This is a two-day course.

### **Course Number**

The course number is CCP170

### **IACET CEUs**

CEUs Awarded: 1.4



### **To Register**

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

You can also access course information via the Web at <http://www.rockwellautomation.com/training>

[www.rockwellautomation.com](http://www.rockwellautomation.com)

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