

# Process

## FOUNDATION™ Fieldbus Basics Course Description

### COURSE AGENDA

- Introduction to FOUNDATION Fieldbus
- Fieldbus Basics
- Fieldbus Function Blocks
- Fieldbus Device Description (DD) Files
- Scheduling
- Wiring and Installation
- Media Components
- Introduction to 1757-FFLD
- FFLD and CAS Initialization
- FFLD-CLX Troubleshooting Exercises
- 1788-CN2FF
- NIFBUS Configurator
- CN2FF Communications
- Fieldbus in ControlLogix



### COURSE NUMBER: CCPC02-LD

#### *Course Purpose*

This advanced skill and knowledge building course provides you with the necessary foundations of using open protocols with multiple measurement technologies, such as temperature and pressure. Output devices, such as valve positioners, will also be covered.

During this course you will be presented with FOUNDATION Fieldbus technologies using the Rockwell Automation 1757-FFLD and 1788-CN2FF linking devices. Additional material on Device Descriptions, advanced function block theory, and troubleshooting techniques will be covered in this class.

### ***Who Should Attend***

Individuals who have little or no working experience with Smart instrumentation or FOUNDATION Fieldbus should attend this course.

### ***Prerequisites***

To successfully complete this course, students must be able to perform basic Microsoft® Windows tasks such as using a mouse, opening and saving files, and moving windows.

Students should also have successfully completed one or more of the following courses (or demonstrate equivalent experience):

- *RSLogix™ 5000 Level 2: Basic Ladder Logic Programming* (CCP151)
- *RSLogix 5000 Level 3: Project Development* (CCP143)

The following skills and knowledge are helpful but not required:

- Basic understanding of process instruments
- Function block programming experience

### ***Student Materials***

To enhance and facilitate your learning experience, the following materials are provided as part of the course package:

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course and includes several hands-on exercises.

### ***Hands-On Practice***

Throughout the course, you will have the opportunity to practice skills you have learned through a variety of hands-on exercises. You will have the opportunity to configure and calibrate Smart instruments using a software tool and a hand-held instrument. You will also integrate FOUNDATION fieldbus instruments into a process automation system and program a cascade initialization loop.

### ***Course Length***

This is a four-day course.

### ***Course Number***

The course number is CCPC02-LD.

### ***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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