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## ControlLogix®/Studio 5000™

### Studio 5000 Logix Designer Level 3: Project Development Course Description

#### COURSE AGENDA

##### Day 1

- Creating and Organizing a Project
- Creating a Periodic Task
- Creating an Event Task
- Developing an Add-On Instruction in Ladder Diagram

##### Day 2

- Organizing Arrays
- Creating a User-Defined Data Type
- Importing Components
- Entering, Editing, and Verifying Ladder Logic
- Configuring a Controller to Produce and Consume Data
- Configuring Controllers to Share Data over EtherNet/IP

##### Day 3

- Communicating with a Local 1756-I/O Module
- Communicating with a 1756-I/O Module over an EtherNet/IP Network
- Configuring a Message
- Allocating Connections
- Retrieving and Setting Controller Status Values with GSV/SSV Instructions
- Programming a BTD Instruction
- Handling a Major Fault

##### Day 4

- Managing Project Files
- Updating Firmware
- Integrated Practice - Developing a Logix Designer Project
- *Optional: Configuring Controllers to Share Data over a ControlNet Network*
- *Optional: Communicating with a 1756-I/O Module Over a ControlNet Network*



#### COURSE NUMBER: CCP143

##### Course Purpose

Upon completion of this course, given a functional specification for a Logix5000 application, you should be able to develop a project to meet the requirements of the specification.

This course covers tasks common to the following controllers, which all use the Logix5000 control engine, or operating system:

- ControlLogix® controllers
- CompactLogix™ controllers
- SoftLogix™ controllers

This course builds upon your knowledge of common controller terms and operation and your experience with basic ladder logic programming.

This course presents a deeper understanding of project development tasks that are common to all Logix5000 controllers. Such tasks include organizing tasks and routines, organizing controller data, configuring modules, and sharing data.

You will also use Producer/Consumer technology to multicast input and output devices, share data between controllers, and control remote I/O.

March 3-6, 2014 @ CED Columbus

\$1990 per student (Lunch and breakfast included)

Please email Chris Zimdahl at [czimdahl@cedcolumbus.com](mailto:czimdahl@cedcolumbus.com) to reserve your spot

**Please visit [www.rockwellautomation.com/training](http://www.rockwellautomation.com/training)**

**for more information!**