

Virtual Classroom Course Description

POINT I/O Implementation



Course Agenda

POINT I/O Implementation

- Sizing a POINT I/O Control System
- Configuring POINT I/O Control System Components in a Studio 5000 Logix Designer Project

Course Number

VC-PIO-A

Course Purpose

This course will teach you how to implement a POINT I/O™ system starting with determining the quantity and type of I/O needed. You will size a POINT I/O system using Integrated Architecture® Builder software. This course will show you how to calculate power requirements and decide whether an expansion power supply will be needed. You will also add and configure an Ethernet adapter and I/O modules in a Studio 5000 Logix Designer® project.

Who Should Attend

Control engineers who design and develop control applications and who will be working with POINT I/O system components over an EtherNet/IP™ network should attend this course.

LISTEN.
THINK.
SOLVE.®

Prerequisites

- Studio 5000 Logix Designer experience or one of the following courses:
 - *Studio 5000 Logix Designer Level 1: ControlLogix Fundamentals and Troubleshooting* (Course Number CCP299)
 - *Studio 5000 Logix Designer Level 1: CompactLogix Fundamentals and Troubleshooting* (Course Number CCP298)
- Knowledge of Ethernet fundamentals
- Knowledge of safe electrical practices
- Knowledge of electrical principles such as voltage, current, and power

Technology Requirements

- A computer and phone are required. For minimum computer requirements for the virtual classroom tool, please visit: <http://support.webex.com/support/system-requirements.html>
- Integrated Architecture Builder software, version 9.1, must be installed and activated. Your virtual classroom student materials will provide details on how to obtain the software.
- Studio 5000 Logix Designer software, version 21, must be installed and activated. If you don't have the Studio 5000 Logix Designer application version 21, your virtual classroom invitation will provide details on how to obtain a temporary installation of the software.
- Studio 5000 Logix Designer version 21 has the following requirements:

Characteristic	Minimum	Recommended
Processor	Pentium 4	Intel Core i5
Speed	2.8 GHz	2.8 GHz
RAM Memory	2 GB	8 GB
Hard Disk Space - Free	16 GB	20 GB
Graphic Device	DirectX 9, with WDDM 1.0 or higher drive	DirectX 9, with WDDM 1.0 or higher drive

Student Materials

You will receive the following materials, in electronic format, to print on your own and use during the course:

- Required Student Setup
- POINT I/O Implementation Workbook
- POINT I/O Modules Selection Guide

Hands-On Practice

Throughout this course, you will have an opportunity to practice tasks such as determining the I/O connection count and selecting machine components using Integrated Architecture Builder software. You will also perform software tasks offline using the Studio 5000 Logix Designer application.

Note: Students will not have a physical workstation for this virtual classroom training.

Next Learning Level

Once you have learned how to implement a POINT I/O system in a Studio 5000 Logix Designer project, you may want to further your ControlLogix® skills and knowledge by attending the following courses:

- *Studio 5000 Logix Designer Level 2: ControlLogix Maintenance and Troubleshooting* (Course Number: CCP153)
- *Studio 5000 Logix Designer Level 3: Project Development* (Course Number: CCP143)

Course Length

120 minutes

Virtual Classroom Learning Activities and Features

Rockwell Automation Virtual Classroom training is delivered by a live instructor using a blended learning style, which includes a combination of PowerPoint presentations, video, and/or animations, as well as interactive practice. Courses can include various learning activities and features:

- Polls/surveys
- Group and private chat
- White board
- Desktop sharing
- Passing control to students
- Break out rooms for small group discussion
- Check knowledge through testing

IACET CEUs

Rockwell Automation is authorized by IACET to offer 0.2 CEUs for this program.



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.

Rockwell Automation is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU. [Click here](#) to view the Rockwell Automation Certificate of Accreditation.

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