

# Essentials of Industrial Automation for an IT Professional (CCP810)

## COURSE OVERVIEW

This course will assist you in building a solid foundation of Industrial Automation and Control Systems (IACS) knowledge. You will learn about and interact with a variety of automation hardware. You will also have an opportunity to use Rockwell Automation software to perform basic system and network tasks. While performing these tasks, you will gain an understanding of how controllers, I/O, and HMI products function together on an EtherNet/IP network.

This introductory level course will give you a broad understanding of how an IACS leverages the high performance, convenience, and widespread usage of Ethernet networks.

## WHO WILL BENEFIT FROM THIS COURSE?

Individuals who have little or no working experience with automation systems and are interested in gaining a broad understanding of industrial automation and control on an EtherNet/IP network should attend this course.

## PREREQUISITES

To complete this course successfully, you must be able to perform basic Microsoft Windows tasks, such as:

- Use a mouse
- Browse for files
- Open, close, size, and move windows
- Assign an IP address to a network interface card

## COURSE OBJECTIVES

After completing this course, you should be able to assess the general network requirements for an IACS communicating on an EtherNet/IP network.

## COURSE OUTLINE

### Day 1

- Identifying Automation Devices Impacting an EtherNet/IP Network
- Determining a Stratix 5700 Industrial Managed Switch Configuration
- Creating an Ethernet Driver Using RSLinx Classic Software
- Verifying Ethernet Communications Using RSLinx Classic Software
- Going Online with a Controller Using the Studio 5000 Logix Designer Application
- Uploading and Downloading Studio 5000 Logix Designer Projects

## **Day 2**

- Downloading a FactoryTalk View ME Runtime Application to a PanelView Plus Terminal
- Determining the Status of an EtherNet/IP Device Using Hardware Indicators
- Determining the Status of an EtherNet/IP Device Using the Studio 5000 Logix Designer Application
- Determining a Device Configuration in a Studio 5000 Logix Designer Project
- Retrieving Configuration and Performance Data Using an EtherNet/IP Device Webpage
- Identifying Industrial Automation and Control System (IACS) Traffic on an EtherNet/IP Network Using a Network Protocol Analyzer

## **Hands-On Practice**

Throughout this course, you will have the opportunity to practice the skills introduced in each lesson through a variety of hands-on exercises performed on an EtherNet/IP workstation.

## **Student Materials**

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

### *Student Manual*

- Includes the key concepts, definitions, examples, and activities

### *Lab Book*

- Provides learning activities and hands-on practice

### *EtherNet/IP Procedures Guide*

- Provides step-by-step instructions for tasks that are common to working with automation devices communicating on an EtherNet/IP network

### *EtherNet/IP Documentation Reference Guide*

- Searchable, electronic resource that contains frequently referenced technical documentation

## **Next Learning Level**

Once you have mastered the introductory skills covered in this course, you will have the knowledge and skills necessary to attend the next level of training:

- Managing Industrial Networks with Cisco Networking Technologies (Course No. IMINS)

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## **WHY TRAIN WITH SUNSET LEARNING INSTITUTE?**

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- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

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- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

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- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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