

# Internet of Things

## Essentials of Industrial Automation for an IT Professional Course Description



### Course Agenda

#### Day 1

- Identifying Automation Devices Impacting an EtherNet/IP Network
- Creating an Ethernet Driver Using RSLinx Classic Software
- Verifying Ethernet Communications Using RSLinx Classic Software
- Uploading, Downloading, and Going Online with Studio 5000 Logix Designer Projects
- Downloading a FactoryTalk View ME Runtime Application to a PanelView Plus Terminal

#### Day 2

- 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
- Determining a Stratix 5700 Industrial Managed Switch Configuration
- 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



### Course Number

CCP810

### Course Purpose

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.

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

LISTEN.  
THINK.  
SOLVE.™

## Who Should Attend

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

There are no prerequisites for this course.

## Technology Requirements

All technology is provided for student use in the classroom by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

## Student Materials

To enhance and facilitate the students' 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

## 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 using an EtherNet/IP workstation (Catalog Number ABT-TDENET5700). Exercises focus on the skills introduced in each lesson.

## 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 Number IMINS)

## Course Length

This is a two-day course..

## IACET CEUs

Rockwell Automation is authorized by IACET to offer 1.4 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.

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

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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