Course Agenda

Day 1
- Identifying Common Industries and Applications in Industrial Automation
- Understanding Industrial Automation Careers
- Identifying Industrial Automation Standards and Regulations
- Understanding Basic Mechanical Components

Day 2
- Understanding Automation Control Systems
- Understanding Controllers
- Identifying I/O Devices and Modules
- Understanding Networks
- Recognizing Logic
- Recognizing Basic Programming Concepts

Day 3
- Identifying System Documentation
- Identifying Human Machine Interfaces
- Identifying AC and DC Motors and Drives
- Understanding Safety in Automation
- Understanding Process Control

Course Number
CCP800

Course Purpose
After completing this course, you should have a broad and fundamental understanding of industrial automation. Topics range from an overview of common automation industries to an introduction of basic automated system components, such as controllers, I/O, drives, and HMI (Human Machine Interface). In addition, you will learn common automation terminology, what tools are used with industrial automation, and what careers may be available to you within this field.

A variety of resources and integrated activities will give you a solid foundation with automated systems and prepare you for more advanced automation-related courses. Such resources include:

- Lab Exercises - You will gain hands-on, real-world experience with an automated system by using the Automation Ferris Wheel workstation.
- Videos/Animation - You will view a wide variety of videos and animations to enhance concepts and provide real-world examples.
- Podcasts - You will be able to listen to interviews with automation workers that offer unique perspectives of various jobs and industries.
- Web links/QR tags - You will be able to access supplemental information on their own using a computer or smart phone.
- Check Knowledge – Relevant questions, which can be given as homework or quizzes, will test your understanding of course concepts.
Who Should Attend
This course is intended for individuals who:

- Have little or no experience with automation systems
- Are interested in gaining a broad understanding of automation systems

Prerequisites
To successfully complete this course, the following prerequisites are recommended:

- Basic training in electricity
- Basic training in electrical safety

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 students’ learning experience, the following materials are provided to each student as part of the course package:

- **Student Book** - Includes the key concepts, definitions, and examples presented in the course. The Student Book also contains links to the examples, videos, animations, podcasts, etc. that are a part of this highly interactive course.
- **Lab Book** - Provides student learning activities through practice and hands-on exercises.
- **Check Knowledge** - Includes questions, which can be used to verify and assess your knowledge. These may be administered as quizzes or assigned for homework.

Hands-On Practice
Throughout this course, you will practice the concepts and skills they learn through a variety of hands-on exercises and interactive activities. These exercises and activities include the Automated Ferris Wheel Workstation and allow you to practice skills on actual automated equipment.

Next Learning Level
Once you have mastered the skills covered in this course, you may want to attend other courses, such as:

- **AC/DC Motors and Drives Fundamentals** (Course No. CCA101)
- **Studio 5000 Level 1: ControlLogix System Fundamentals** (Course No. CCP146)

Course Length
This is a three-day course.

IACET CEUs
CEUs Awarded: 2.1

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