

Integrated Architecture

Introduction to Automation and Integrated Architecture™ System Course Description

COURSE AGENDA

Day 1

- Identifying Components of Integrated Architecture
- Establishing Communications in an Integrated System
- Programming a Basic RSLogix™ 5000 Project for an Integrated System
- Programming with Tag-Based Addressing in an Integrated System

Day 2

- Identifying Programming Languages in an Integrated System
- Understanding Logix5000™ Multi-Discipline Control
- Understanding NetLinx-Enabled Networks
- Understanding the Visualization Development Environment of an Integrated System
- Understanding HMI Direct Tag Referencing in an Integrated System



COURSE NUMBER: CIA101

Course Purpose

This course will assist you in developing and building a solid foundation of Integrated Architecture and automation system 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 configuration tasks. While performing these tasks, you will gain an understanding of how controllers, drives, motors, networks, and HMI products function together within Integrated Architecture.

This introductory level course will give you a broad understanding of automation products and serve as an excellent first step when beginning any automation training.

Who Should Attend

Individuals who have little or no working experience with automation systems and individuals interested in gaining a broad understanding of automation and Integrated Architecture should attend this course

Prerequisites

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

- Using a mouse
- Browsing for files
- Opening, closing, sizing, and moving windows

Student Materials

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

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises.

Hands-On Practice

Hands-on practice is necessary for retaining new information and learning new skills. Once you are familiar with the basic components of an integrated system, you will create a working program with RSLogix 5000 software. You will also have an opportunity to practice integrating this program across NetLinx-enabled networks with motors, drives, and visualization products.

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 automation training. In particular, this course will benefit those students enrolling in the following courses:

- *RSLogix 5000 Level 1: ControlLogix® System Fundamentals* (Course No. CCP146)
- *Motion Control Fundamentals* (Course No. CCN130).
- *AC/DC Motors and Drives Fundamentals* (Course No. CCA101).
- *DeviceNet™ and RSNetWorx™ Configuration and Troubleshooting* (Course No. CCP164).
- *ControlNet™ and RSNetWorx Design & Configuration* (Course No. CCP170).

Next Learning Level (cont.)

- *EtherNet/IP™ Design and Configuration* (Course No. CCP174).
- *RSView® 32™ Project Development* (Course No. RS-RSVTRG).
- *FactoryTalk® View Machine Edition™ and PanelView™ Plus Programming (formerly RSView ME)* (Course No. CCV204).

Course Length

This is a two-day course.

Course Number

The course number is CIA101.

IACET CEUs

CEUs Awarded: 1.4



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>

www.rockwellautomation.com

Power, Control and Information Solutions

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation SA/NV, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846