

Process Control

AADvance Comprehensive System Training Course Description



Course Agenda

Day 1

- Building AADvance System Architectures
- Identifying AADvance Components
- Installing and Wiring an AADvance System
- Developing an AADvance Program
- Simulating and Testing an AADvance Project

Day 2

- Downloading and Monitoring an AADvance Project
- Creating and Using AADvance Functions and Function Blocks
- Updating a Running AADvance Project
- Mapping a Binding Between AADvance Controllers
- Managing AADvance Workbench Version Source Control
- Importing and Exporting AADvance Elements

Day 3

- Archiving and Restoring an AADvance Project
- Protecting an AADvance Project
- Configuring OPC Communications in an AADvance System
- Troubleshooting an AADvance System
- Integrated Practice: Developing an AADvance Project



Course Number

PRST9063LD

Important: If your responsibilities are limited to maintaining and troubleshooting the AADvance® system, take this course instead: *AADvance Operation, Maintenance, & Troubleshooting* (Course No. PRST9064LD)

Important: Do not take both PRST9063LD and PRST9064LD because they share similar content.

Course Purpose

This course provides a comprehensive overview of AADvance hardware, software, and troubleshooting. Upon successful completion of this course, you should be able to:

- Identify fail-safe and fault-tolerant architectures
- Determine the components used in the system
- Assemble an AADvance system
- Create, modify, test, download and update projects using the AADvance Workbench
- Create functions and function blocks
- Pass safety-critical data between controllers
- Communicate with the system using OPC
- Utilize the version control features
- Troubleshoot a system and replace modules

LISTEN.
THINK.
SOLVE.

Who Should Attend

This course is intended for:

- Personnel responsible for designing, configuring programming, and troubleshooting an AADvance system
- Personnel designing a control system that needs to interact with an AADvance system

Prerequisites

To successfully complete this course, you must have:

- General understanding of Functional Safety and the application of ANSI/ISA-84.00.01 (IEC 61511 Mod)
- General knowledge of programmable logic controllers (PLCs)
- Background in industrial electronic control principles and practices

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 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

Lab Book, which provides learning activities and hands-on practice

AADvance Manuals, including documentation for safety, configuration, and troubleshooting

Process Safebook, an introduction to Functional Safety for process applications

Hands-On Practice

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. These exercises focus on the skills introduced in each lesson.

Course Length

This is a three-day course.

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>

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