

Process Control

AADvance Comprehensive
System Training



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

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

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

STUDENT MATERIALS

To enhance and facilitate the students' learning experiences, the following materials are provided as part of the course package:

- Student Manual
 - Includes the key concepts, definitions, examples, and activities presented in this course
- Lab Book
 - Provides learning activities and hands-on practice
- AADvance Manuals
 - Includes 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>

To be respectful of the environment, Rockwell Automation is transitioning some of its training courses to a paperless format. Students are asked to complete downloads and bring personal devices to these classes. A full list of digital/paperless courses is currently available through your local distributor.

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