



Curriculum Description

PAC Automation Solutions

Tuition Fee

Tuition is \$0 for authorized Channel Partners.
Tuition is \$0 for non-Channel Partners.

Description

This training program provides the basic information needed to understand the ABB AC500 PLC and Automation Builder lines, their basic architecture and use.

Goals

The goals of this Program are to guide participants into using the AC500 product line for first line sales support. Also, participants will be shown how to find and use the Automations Catalog, discover the features, shortcuts and practices to improve productivity when creating, testing and using Automation Builder. The student will learn to connect to the PLC, how to create and test a program.

Training Type and Duration

This program is approximately 5.5 hours of Video Learning course modules and two self-paced labs.

Student Profile

This Program is open for ABB authorized channel partners, OEM's, technical support professionals, application engineers, technicians, and end-users who works with and sells the AC500 PLC. It is intended for personnel who need an understanding of the AC500 PLC operation and architecture without being a full-fledged PLC Specialist. The student will understand how the AC500 PLC fits and how it is used in basic ABB Automation Solutions.

Training locations and scheduling

This Live Remote Training Program is offered by our training facility in New Berlin, WI. Please visit the Drives, PLC and Motion Training Schedule for a list of upcoming classes.

http://www.abbnow.com/DefaultFilePile/Training/Schedules/DrivesPLCMotionTrainingSchedule_2021.pdf.

Prerequisites

Before enrolling in the classroom ILT, students must first complete the following:

- o HMI Drive Faceplates (9TCP002144)
- Students must have intermediate skills with using a Windows® based computer.
- Students should have at least six months experience working as Automation Systems technical professionals.

Learning Objectives

For successful completion of this program, students will:

Identify different models of the AC500 series PLC.

- Describe and outline the architecture and components for an ABB Automation Solutions application with an emphasis on the detail of the PLC components.
- Understand Automation Builder Licenses.
- Understand how to download Automation Builder.
- Understand and work with Automation Builder to:
 - o Connect to a PLC
 - o Set up a program a simple system
 - o Upload and Download to a PLC
 - o Testing a program in Simulation Mode
- Understand the differences between Version 2 and 3.
- Understand the 7 different programming languages.
- Understand Operands and Data Types.
- Find troubleshooting help.

Student Materials

All materials are downloadable from the Learning Management System or ABB.Com.

Agenda

Title	Minutes
Website Overview	0:07:12
AC500 Family V2 vs V3	0:11:20
AC500 PLC_S500 IO Review	0:30:00
AC500 PLC Communications Modules	0:45:15
Automation Catalog Overview	0:03:42
PLC Hardware Selection Lab	0:01:00
PLC Hardware Selection Lab Quiz	0:45:00
AC500 IEC_61131 Application	0:25:55
AC500_OperandsAndDataTypes	0:18:00
Intro to PS5605 Drives Library	0:04:46
AC500 V3 Online Access	0:14:51
Automation Builder Install	0:09:00
Navigating Automation Builder	0:06:08
Getting Started in Auto Build	0:23:00
AC500 Basic Simulation Lab	1:30:00
Total Duration	5:35:09

Note: Students will have to download Automation Builder to complete this program. The free Basic version is sufficient. ABB will not troubleshoot student owned PC's.

