

AB to S7 Service Technician in TIA Portal (US-TIAABSV1)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

3 Days

2 CEUs

Target Group

- Programmer
- Engineer

Short Description

This course acknowledges the automation experience of the students and delivers must-know, basic topics to experienced technicians / engineers interested in Siemens SIMATIC STEP 7 TIA Portal software. This course moves technicians / engineers / programmers quickly into the power of the STEP 7 TIA Portal engineering tool. Multiple STEP 7 program editors are presented demonstrating the flexibility and fully integrated features of STEP 7. The course teaches Siemens STEP7 TIA Portal Software recognizing the previous experience students have with Allen-Bradley platforms. The instructor has familiarity with AB platforms and software from which they directly relate to the questions and experiences of students in the class.

Objectives

- Utilize STEP 7 TIA Portal engineering tools
- Insert an HMI device into a project
- Locate Tags using Cross-Reference tool
- Utilize System Diagnostic Functions to test and troubleshoot an application program
- Create custom code blocks
- Create reusable program code (FB, DB, FC, etc.) and insert in Library
- Assign tags in STEP 7 TIA Portal
- Create, Store, and Retrieve Library Objects

Content

- System Overview
- Overview
- Hardware installation
- TIA Portal Navigation
- Getting the PLC ready to run
- Hardware Diagnostics
- How the PLC works
- Programming Blocks and knowing the Machine
- Programming Languages
- Troubleshooting

Recommended Prerequisites

[Introduction to TIA Portal and Diagnostics: US-PTBADIA](#)

Note

This course concentrates on STEP 7 software, program structures, System Functions, advanced block libraries and custom block design. STEP 7 engineering tools and programming instructions are demonstrated to guide the student through the development of a realistic application. The course format consists of instruction, demonstration, and hands-on exercises. Students utilize test, debug and diagnostic tools to complete extensive programming exercises.

Language

English

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