

Introduction to TIA Portal and Diagnostics - Virtual (SCT-PTOILBADIA)

Type

Virtual Instructor-led Learning

Duration and Continuing Education Units (CEU)

10 Hours (Schedule varies)
1 CEUs

Target Group

- Engineer
- Maintenance

Short Description

This course is an introduction to the TIA Portal Development Environment and is an ideal preparation for the TIA Portal Programming 1 or TIA Portal Service 1 courses. This course helps students unlock the potential for increased productivity by building foundational concepts and diagnostic skills. Students will learn how to apply those skills to create or open existing projects, navigate work screens and informational cross-referencing, identify CPU and I/O hardware specifications, and conduct initial hardware diagnostics in TIA Portal.

Objectives

- Use STEP 7 Professional V14 (TIA Portal) to create a new development project
- Navigate through an existing project using both the Portal View and the Project View
- Configure an S7-1500 PLC with local I/O modules
- Assign PLC tags
- Identify key characteristics of program blocks
- Identify important features of the automation languages LAD and FBD
- Diagnose hardware errors

Content

- Number Systems & IEC61131 Standard
- Introduction to the TIA Portal Development Environment
- PLC Program Blocks and Variables in the Program Editor
- Introduction to I/O and Addressing
- TIA Portal Automation Languages
- CPU Diagnostics

Note

This is a live instructor led on-line course delivered in 2-hour learning modules through the web. Access to fully functional TIA Portal software is provided through a cloud-based application. Students are encouraged to complete assigned lab exercises during and after each session to reinforce the learning modules throughout the week. Professional Siemens instructors are available to answer student questions outside of scheduled class times. Recommendation: Students familiar with programming in Allen Bradley software should attend the AB to TIA Portal course (SCT-PTABSP1A in person or virtual instructor-led SCT-PTOILABSP1A).

Language

English

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