

Siemens TIA Portal Certified Service Technician Level 1 (US-PTSVCR2A)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

5 Days
3.3 CEUs

Target Group

- Engineer

Short Description

Automation engineering and technology advancement towards Totally Integrated Automation solutions no longer exclusively include programmable logic controllers (PLCs). Today, it also includes industrial communication, operator control, monitoring, security technology, and the connection of drives. Skills from SIMATIC service basic training will be refreshed and consolidated over four days. On the fifth day, one may take the examination. The test is on day five to qualify as a level one Siemens certified SIMATIC Technician.

Objectives

- Troubleshoot an automation system consisting of SIMATIC S7-1500 PLC, distributed I/O, Touch Panel, drive, and a conveyor belt model
- Diagnose hardware and software faults/errors
- Troubleshoot errors/faults in PLCs and distributed I/O
- Configure and assign parameters to modules with diagnostics
- Service digital and analog signal processing
- Put certain blocks into operation and expand them
- Commission distributed I/O
- Configure HMI screens
- Configure messages
- Commission a drive
- Successfully complete the certification test

Content

- SIMATIC controller servicing
- Industrial communication: Commission distributed I/O
- Human Machine Interface (HMI)
- Motion control: Commission a drive
- Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 system model
- Complete the Siemens TIA Portal Certified Service Technician Level 1 test

Mandatory Prerequisites

[SIMATIC Service 2 in the TIA Portal: TIA-SERV2](#)

Note

The practical assessment includes the commissioning of the hardware of a PLC, a simple PLC program, and the components of Totally Integrated Automation. After passing the examination successfully, the newly certified technician will receive a certificate proving level one specialist knowledge.

Language

English

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