SIEMENS

S7 Advanced Troubleshooting (US-S7TIATBL)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

3 Days
2 CEUs

Target Group

- Maintenance
- Engineer

Short Description

This course is for experienced SIMATIC S7-300/400 PLC Maintenance Technicians, Service Technicians, and Service Engineers. Learners will expand their knowledge in diagnostic troubleshooting using Siemens STEP7 Totally Integrated Automation Software.

This is an advanced course focused on diagnostic troubleshooting using Siemens STEP7 Totally Integrated Automation Software. Learners will expand their knowledge on how to troubleshoot, diagnose, and repair programming and hardware configuration issues within Siemens S7300/400 PLC's. This course includes classroom instruction, demonstration, and considerable hands-on lab work.

Objectives

- Recognize Error classifications
- Identify the different testing options the PLC, CPU, and the S7 Simatic Manager have for diagnostics
- Determine backup and restoring methods in the PLC and HMI
- Diagnose hardware configurations and linkups
- Analyze Online Diagnostics
- Monitor and Modify programming values
- Diagnose software and program status and running conditions
- Retrieve and start backup programs
- Effectively use the CPU and HMI Messaging screens
- Analyze program block error messages
- Correct use of the Diagnostic Buffer

Content

- Troubleshooting Overview
- Commissioning
- Organization Blocks
- Software Troubleshooting
- Communication Troubleshooting

Mandatory Prerequisites

[S7 Programming 1: US-S7TIAP1C](#)

OR

[S7 Automation Maintenance 2: US-S7300S2C](#)

OR

[S7 Programming 1: US-S7TIAP1C](#)

Language

English