

Statement List (STL) Programming (SCT-S7STLP2C)

Type

Face-to-Face Learning

Duration and Continuing Education Units (CEU)

24.5 Hours over 3.5 Days
2.3 CEUs

Target Group

- Programmer

Short Description

This course is intended for PLC Programmers with SIMATIC S7-300/400 PLC Ladder or Function Block Diagram programming experience.

Designed for today's adult learners and filled with hands-on exercises, STL for Programmers begins with basic skills that help participants transition from Ladder logic to STL logic. Participants build on those programming skills moving to an advanced level by the end of the course. The lab environment is virtual containing a Virtual PLC, Virtual Runtime HMI, and Virtual 3D Conveyor system.

Objectives

- Create and troubleshoot basic bit logic operations in a program using STL
- Create and troubleshoot a basic STEP7 program written in STL
- Perform basic data moves, conversions and storage using STL
- Open typical system functions and review parameters, assignments, and variables
- Use a typical Data Block function for Data management and diagnostics
- Open typical Organization Blocks and understand their use in a structured program
- Configure a typical Analog signal and manage input and output analog data using STL

Content

- S7 STL Course Intro
- Preparing the Class Project
- STL Basics
- Boolean Logic
- Basic Troubleshooting
- Timers and Counters
- Math, Compare, Data Conversion
- Analog Scaling
- Reusable Blocks
- Code Execution within the S7 Block
- Indirect Addressing

Language

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