SIEMENS

SIMATIC S7, Programming with SCL (ST-7SCL)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

3.5 Days
2.3 CEUs

Target Group

- Engineer
- Programmer
- Maintenance

Short Description

This course is for engineering and maintenance personnel, who create, diagnose and troubleshoot SIMATIC STEP7 applications with Structured Control Language (SCL) content.

This course provides an in depth look at STEP7 programming and program troubleshooting with a focus on the Structured Control Language (SCL) - a PASCAL- similar high level text language for programming mathematical algorithms, data management and organization tasks for Siemens automation systems.

Objectives

- Efficiently use the SIMATIC Manager program editor tools
- Use the STEP7 program monitor, diagnostics and troubleshooting tools
- Build or modify SCL programs
- Package an SCL program into a custom library block and use within a STEP7 project
- Explore the SCL syntax requirements and the system debug functions
- Use PLCSIM to software to simulate PLC hardware and build hardware independent project

Content

- The SIMATIC Manager
- SCL Overview
- SCL Program Structure
- SCL Syntax
- SCL Data Types
- SCL Declarations
- SCL Math Operations
- SCL Control Instructions

Mandatory Prerequisites

S7 Programming 1: US-S7TIAP1C

Language

English