SIEMENS

S7-300F Distributed Safety Sustaining (US-S7SFTS1A)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

2 Days
1.3 CEUs

Target Group

- Maintenance
- Engineer
- Programmer

Short Description

This course is for SIMATIC S7 300F PLC users who install or maintain automation safety systems and their application programs.

This course introduces the student to a Siemens Distributed Safety PLC application. Participants will build skills on commissioning, troubleshooting and upgrading an automation safety system. Failsafe Hardware Module details and parameterization, Safety Program structure and implementation, and System Diagnostics are covered.

Objectives

- Understand the concept of the Siemens S7 safety integrated system
- Identify S7 safety components
- Know how to remove and replace S7-300 and ET200S safety components
- Identify the wiring diagrams of the S7-300 and ET200S safety components
- Understand the hardware configuration of the S7-300 safety components
- Identify the LED diagnostics for the S7-300 safety components
- Identify the addressing of the S7-300 safety components
- Understand the structure of an S7-300 safety program
- Troubleshooting using the Hardware Configuration diagnostics to identify system faults
- Troubleshooting using the VAT to monitor the I/O modules' diagnostic bits
- Troubleshooting using the status of program logic

Content

- Safety Systems Overview
- Introduction to Standard & Safety Block Structure
- Safety Products
- S7 Safety CPU and ET200S Hardware
- Safety PLC Hardware Configuration
- Safety Project Overview
- Safety Program Code
- Testing and Diagnostics

Mandatory Prerequisites

S7 Programming 1: US-S7TIAP1C

OR

S7 Automation Maintenance 2: US-S7300S2C

Language

English