SIEMENS

Online Training - SIMATIC Distributed Safety on S7-1500F With TIA Portal (AS-TIA150F)

Objectives

Making participants familiar/work with SIMATIC S7-1500F with TIA Portal and configuring, programming, starting up, diagnosing and troubleshooting of the failsafe CPUs of the SIMATIC S7 Safety PLC, distributed ET200SP systems

Target Group

- Commissioning Engineers
- Service Engineers
- Engineering users

Content

- Standard Overview of Safety
- Product Overview like SIMATIC Failsafe controller, Fail Safe system for factory automation
- Introduction of S7-1200F
- Safety concept of Distributed Safety
- Sensor Actuator Interfacing like Sensor /encoder wiring to F-DI module
- Actuator interfacing to F-DO
- Hardware Configuration like Configuration of S7-1500/ ET200SP & Simatic selection tool.
- Training unit Configuration & addressing of S7-1500F & ET200SP
- Programming like Blocks of safety program, Structure & Execution of safety program
- Creating of F-FC/F-FB & PB Block, Programming guidelines, Passivation of F-module principle
- Exercises & Hands on practice.
- Fail safe communication between two failsafe controllers using PN/PN Coupler
- Introduction to SET (Safety Evaluation Tool)
- Practical exercises on training devices with SIMATIC S7-1500 and SINAMICS drives

Prerequisites

- Basic Knowledge of Automation technology/relay logic and S71500F

Note

Hardware and Software to be used:
- S71500F kit with HMI panel and S71500F CPU's
- Laptops/ PC systems installed with TIA Portal STEP7 Prof. V16 software with Safety advanced

Type

Online-Training

Duration

3 days

Language

en

Fee

25,000 INR