SIEMENS

TIA Safety Advanced on S71500F with STEP7 V17 (AS-TIAF)

Objectives

Making participants' familiar/work with SIMATIC S7-1500F with STEP 7 V15.1, also configuring, programming, starting up, diagnosing and troubleshooting of the failsafe CPUs of the SIMATIC S7 Safety PLC, distributed ET200SP systems

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
Response time of F-system, Plant Acceptance & Hardware maintenance
Exercises & Hands on practice

Prerequisites

Basic Knowledge of Automation technology/relay logic and S71500F

Note

Hardware and Software to be used:
1. S71500F kit with HMI panel and S71500F CPU's
2. Laptops/ PC systems installed with TIA Portal V15.1 software with Safety advanced

Type

Face-to-face training

Duration

3 days

Language

en