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# TIA Safety Advanced

## SITRAIN Digital Industry Academy

ISO 9001:2015 Certified Training Centre

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To ensure saving the life & limb of an operator, guidelines for a safe machine environment are provided. BIS and other international safety standards-enforcing bodies have defined various Safety Integration Levels which completely focus on making a machine safe. Learn how to maximize performance and utilize all the features of standard as well as safety-relevant tasks with S7-1500F.

### TIA Safety Advanced with S7-1500F

| 3 Days

- 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 /encoder wiring to F-DI module, Actuator interfacing to F-DO.
- Hardware Configuration of S7-1500/ ET200SP & TIA 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 & DB Block, Programming guidelines, Passivation of F-module principle.
- Fail safe communication between two failsafe controllers using PN/PN Coupler.
- Response time of F-system.
- Plant Acceptance & Hardware maintenance.
- Exercises & Hands on practice.

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