

## SIMATIC Fail-safe (Process Safety) course (AS-SFP)

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### Objectives

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Making participants familiar / work with F-System Safety standards. In this course participant will understand basic difference between Standard & Safety products. Operation & maintenance, Communication & Safety matrix overview.

### Target Group

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Engineers in Instrumentation / Electrical / Electronics / Engineering.

### Content

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- Introduction of S7 F-Systems.
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- Overview of S7 F-Systems Machinery & Plant safety.
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- F-Systems overview of hardware component.
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- Sensor & Actuator Interfacing like Sensor /encoder wiring to F-DI module
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- Actuator interfacing to F-DO & Analog value processing.
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- Safety mechanism of S7-400 F/FH, Passivation of F-I/O's, Reintegration of F-I/O.
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- S7 F-System Configuration like Power supply, rack, CPU, parameterization of CPU & configuration of Failsafe periphery.
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- S7 F-Systems CFC Basic, Rules for program structure, program Architecture, Runtime sequence, Shutdown groups, compile & Download of charts & validation of F-Program.
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- S7-F systems Operation & Maintenance, Trend Display in CFC, Dynamic display & Diagnostic of hardware.
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- Safety related CPU-CPU communication.
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- Safety Matrix-overview & engineering, components, software requirements, Licenses, maintenance options.

### Prerequisites

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Basic Knowledge of Automation technology / relay logic. Know how about SIMATIC STEP 7.

### Type

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Face-to-face training

### Duration

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3 days

### Language

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