

## Programmazione di controllori Fail-Safe con Distributed Safety (ST-PPDS)

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### Short Description

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This course introduces you to a Siemens Distributed Safety PLC application. You will receive knowledge on applying the system per relevant standards, Failsafe Hardware Module details and parameterization, Safety Program structure and implementation, Safety Communications, System Diagnostics and introduction to Drive Safety.

### Objectives

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After attending the course, you can:

- Commissioning fail-safe SIMATIC controllers and fail-safe SIMATIC ET 200S distributed I/O system
- Programming of safety-related programs in the languages LAD and FBD
- Diagnosing and troubleshooting of safety-related systems and programs

### Target Group

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Programmers  
Commissioning engineers  
Engineering personnel

### Content

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- Overview and guidelines
- Product overview and operating principle Safety Integrated
- Configuring of the fail-safe components with SIMATIC S7 Distributed Safety
- Programming of a safety program
- Programming tips
- Fail-safe communication (CPU-CPU communication with couplers and I device)
- Diagnostics facilities (CPU diagnostics, I/O diagnostics, advanced diagnostics)
- Acceptance test

The theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-300F automation system, a fail-safe SIMATIC ET 200S distributed I/O and a line simulator with safety sensors and actuators.

### Prerequisites

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SERV1 or PRO1 courses or equivalent basic knowledge of automation systems.

### Note

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In this course, the SIMATIC S7-300F automation system and the SIMATIC S7 Distributed Safety software are used; PPDS course is available for the SIMATIC S7-1500F automation system and SIMATIC STEP 7 Safety Advanced (TIA Portal) software.

### Type

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Face-to-face training

### Duration

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2 days

### Language

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