

## SINAMICS S120 Safety Functions (DR-S12SAF)

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### Short Description

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Sinamics S120 Drives Safety Functions

### Objectives

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In this course you learn the handling of drive based Safety Functions. You know applications of the different functions and you can parameterize them.

### Target Group

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Commissioning / Service /Maintenance Engineers

### Content

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- Basic Hardware components of Sinamics-S system & their details & specification.
- Topology comparison.
- Fundamentals, standards and regulations of Machine Safety.
- Procedure of risk assessment.
- Performance Level (PL) and Safety Integrity Level (SIL).
- Safety Evaluation Tool (SET) for the evaluation of PL and SIL.
- Information about safety functions available in Sinamics family.
- SINAMICS S120 Safety Integrated Basic Functions and Extended Functions.
- Control of the drive integrated Safety Functions via.
  - o Terminal Module TM54F and DRIVE-CLiQ.
  - o SIMATIC F-CPU and PROFIsafe.
- Effect of the settings of the closed-loop control and the kinetic energy of an axis on the safety functions.
- Execution of the acceptance test and preparation of the acceptance report.
- Licensing and diagnostics.
- Practical exercises on training kits with SINAMICS S120, TM54F and SIMATIC F-CPU.

### Prerequisites

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Knowledge of Sinamics S120 system according to the course DR-S120.

For the topic PROFIsafe knowledge of SIMATIC S7 is useful.

### Type

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Face-to-face training

### Duration

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3 days

### Language

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en

**Fee**

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18,000 INR