

## SINAMICS S120 Safety Integrated / SINAMICS S120 驱动安全集成 (D7223)

### Objectives

In this course you learn the handling of drive based Safety Functions. You know applications of the different functions and you can parameterize them. Therefore you use the benefits in comparison with a conventional safety technology, like reduced cabling or faster commissioning of identical machines. In the course you got through all steps for the implementation of the safety functions until the final acceptance report.

### Target Group

programmer, commissioning personnel, engineering, service personnel, maintenance personnel

### Content

- Fundamentals, standards and regulations of Machine Safety
- Procedure of risk assessment
- Performance Level (PL) and Safety Integrity Level (SIL)
- SINAMICS S120 Safety Integrated Basic Functions:
  - Safe Torque Off (STO)
  - Safe Stop 1 (SS1)
  - Safe Brake Control (SBC)
- SINAMICS S120 Safety Integrated Extended Functions:
  - Safe Stop 2 (SS2)
  - Safe Operating Stop (SOS)
  - Safely Limited Speed (SLS)
  - Safe Speed Monitor (SSM)
- Control of the drive integrated Safety Functions via
  - Terminal Module TM54F and DRIVE-CLiQ
  - SIMATIC F-CPU and PROFIsafe
- Practical exercises on training kits with SINAMICS S120, TM54F and SIMATIC F-CPU

### Prerequisites

Knowledge of SINAMICS S120 according to the course DR-SNS-SI. For the topic PROFIsafe knowledge of SIMATIC S7 is useful

### Type

Face-to-face training

### Duration

4 days

### Language

zh

### Fee

5,500 CNY