SIEMENS

SINAMICS S120 Safety Functions (DR-S12SAF)

Short Description

Sinamics S120 Drives Safety Functions

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.

Target Group

Commissioning / Service /Maintenance Engineers

Content

· 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

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

For the topic PROFIsafe knowledge of SIMATIC S7 is useful.

Type

Face-to-face training

Duration

3 days

Language

en

Fee

18,000 INR