SIEMENS

SINUMERIK ONE and SINUMERIK 840D sI Safety Integrated Commissioning (F-PLC) (NC-SAF-SIW)

Short Description

This course provides you with knowledge for the project planning and startup of the Functions of Safety Integrated (F-PLC) for SINUMERIK ONE and Safety integrated (plus) for SINUMERIK 840D sl. You will learn how to select suitable functions as well as how to implement and validate them.

Objectives

This course teaches the handling of the safety functions of SINUMERK Safety Integrated (F-PLC). This safety variant using the F-PLC is required for the SINUMERIK ONE, but can also be used with the SINUMERIK 840D sl. The PLC is configured and programmed with the TIA Portal.

You will learn how to apply the different safety functions and know their parameterization, programming and test. In the course, You perform all the steps, from the activation, parameterization and programming of the functions up to the acceptance test with protocol. This allows you to make the most of the benefits of Safety Integrated (F-PLC) for your machine tool.

Target Group

Commissioning engineers Engineering personnel Service personnel

Content

General information on safety technology and standards System requirements TIA Safety for the SINUMERIK F-PLC; Differences S7-300 (840) and S7-400 (ONE) Description of the safety functions; Differences to Safety Integrated (spl) Safe programmable logic in the F-CPU Safe communication with PROFIsafe Sensor/actuator integration Safe Brake Management and Test stop with SIC/SCC Adaptation of the safety functions by parameterizing the drives and creating the F-program Procedure for commissioning and troubleshooting Evaluation of diagnostic and alarm displays Circuit examples for Safety Integrated Acceptance test Practical commissioning exercises with a SINUMERIK training rack

Prerequisites

Knowledge according to the course NC-84SL-SIP or NC-ONE-SIP or NC-ONE-UP Programming knowledge with TIA Portal according to the courses TIA-SYSUP or TIA-PRO1

Note

This training is the successor of the Safety PLUS startup training NC-PLUS-SIW . It contains additionally all information needed to startup SAFETY Intergrated for the SINUMERIK ONE.

Туре

Face-to-face training

Duration

5 days

Language

en