

SINUMERIK ONE Commissioning (NC-ONE-COM)

Short Description

This course provides knowledge for project planning and commissioning of the SINUMERIK ONE as digital twin and real, as well as the knowledge to create and test different machine configurations.

Objectives

This course will give you knowledge for the configuration and commissioning of the SINUMERIK ONE, as well as the knowledge to create and test different plant configurations.

In practical exercises you train commissioning and service on training equipment.

After the course ends, you will master the commissioning of the SINUMERIK ONE control system with a SINAMICS S120 drive. By knowing the various functions of the controller, you are able to optimally adapt the controller to the machine and thus maximize the productivity of your machine.

Target Group

Commissioning engineers
Engineering personnel
Service personnel

Content

Overview and components of SINUMERIK ONE
Overview of SINUMERIK ONE functionality
Data backup of the SSD/SD as well as the IPC, recommissioning, SW upgrade
Commissioning of the digital twin with TIA portal and CreateMyVirtualMachine
Adaptation of the control functions to the machine with machine data and interface signals
Machine kinematics and collision monitoring
Transfer of data to the real machine
Drive configuration and axls assignment
Basics of optimization
PLC basic program and interface signals
PLC user program and user alarms
Commissioning of compensations and axls couplings
Adaptation SINUMERIK Operate
Introduction of synchronous actions
Practical commissioning exercises on the PC (digital twin) as well as on a SINUMERIK training device

Prerequisites

Basic knowledge according to the course NC-NCAN or NC-BASIC.
Knowledges in TIA Portal equivalent to the course Tia-Sysup.
Relevant education, knowledge and experience to enable him or her to analyze risks and to avoid hazards which electricity could create.

Note

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) – starting one week before the start of the course until two weeks after the end of the course.

With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

This course is the successor to the NC-ONE-SIP course. The content is comparable and updated.

Type

Face-to-face training

Duration

10 days

Language

en