

## SINUMERIK ONE Commissioning (NC-ONE-COM)

### 简要介绍

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.

### 培训目的

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.

### 培训对象

Commissioning engineers  
Engineering personnel  
Service personnel

### 课程内容

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

### 必备条件

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.

### 注意事项

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.

### 课程类型

标准课程

### 培训天数

10 天

### 培训语言

en