

## SINUMERIK ONE Upgrade (NC-ONE-UP)

---

### Short Description

---

Based on your good know-how on the SINUMERIK Solution Line, this course will provide the knowledge for the project planning and commissioning of the SINUMERIK ONE, as well as the knowledge to create and test different machine configurations.

### Objectives

---

Based on your good know-how on the SINUMERIK Solution Line, this course will provide you with the knowledge for the project planning and commissioning of the SINUMERIK ONE as digital twin and real, as well as the knowledge to create and test different system 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 control 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, 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 commissioning and axle assignment  
Practical commissioning exercises on the PC (digital twin) as well as on a SINUMERIK training device

### Prerequisites

---

Basic knowledge of the TIA portal  
Good knowledge of the SINUMERIK 840DSL according to the course NC-84SL-SIP  
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.

### Type

---

Face-to-face training

### Duration

---

5 days

### Language

---

en