

## Online-Training - SINUMERIK ONE upgrade (NC-ONE-UP)

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### Short Description

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

[Also available as face-to-face training](#)

### Objectives

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Based on your good know-how on the SINUMERIK Solution Line, this online course provides you with the knowledge for the project planning and commissioning of the SINUMERIK ONE as digital twin, as well as the knowledge to create and test different system configurations. In practical exercises you train commissioning and service on a virtual training device and is supplemented by the demonstration what still needs to be done on real NC.

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

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Commissioning engineers  
Engineering personnel  
Service personnel

### Content

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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 seams signals  
Machine kinematics and collision monitoring  
Demonstration of Transfer of data to the real machine  
Demonstration of Drive commissioning and axle assignment  
Practical commissioning exercises on the PC (digital twin) as a virtual training device

### Prerequisites

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- Basic knowledge of the TIA portal
- Good knowledge of the SINUMERIK 840DSL according to the course NC-84SL-SIP
- [Technical requirements](#) > VE Lab / Real VNC

### Note

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none

### Type

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Online-Training

### Duration

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5 days

### Language

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