

## SINUMERIK 840D s1 Optimization for SINAMICS S120 (NC-84SL-OPT)

### 简介

This course deals with the optimization of the drive system SINAMICS S120 in conjunction with the cnc SINUMERIK 840D s1.

### 培训目的

This course deals with the optimization of the drive system SINAMICS S120 in conjunction with the cnc SINUMERIK 840D s1. On completion of the course, you will be able to adapt the drives optimally to the machine tool. You will become familiar with the interaction of SINUMERIK and SINAMICS and will thus be able to make optimal use of the system's dynamics. This will enable you to increase the productivity of your machine.

### 培训对象

Commissioning engineers  
Engineering personnel  
Service personnel  
Maintenance personnel

### 课程内容

Procedures for the optimization of feed drives in conjunction with SINUMERIK 840D s1  
Control-loop structures of feed drives  
Functionality of position, speed and current control loop  
Usage of current control filters depending on the mechanical system  
Optimization using step response and frequency response analysis  
Usage of the diagnostic tool Trace for the recording of internal signals  
Optimization of the positioning behaviour using feed forward control and jerk limitation  
Adjustment of two interpolating axes with the help of the on-board circularity test  
Introduction into the Automatic Servo Tuning  
Practical optimization exercises on training devices

### 必备条件

Basic knowledge according to the course NC-84SL-SIP, NC-84SL-SK or NC-ONE-SIP, NC-ONE-SK.

### 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 also suitable for users of SINUMERIK ONE.

### 课程类型

标准课程

### 培训天数

5 天

### 培训语言

en