SIEMENS

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

Kort beskrivelse

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

Målsætninger

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

Målgruppe

Commissioning engineers
Engineering personnel
Service personnel
Maintenance personnel

Indhold

Procedures for the optimization of feed drives in conjuction with SINUMERIK 840D sl
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

Deltagerkrav

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

Bemærk

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.

Type

Face-to-face-uddannelse

Varighed

5 dage

Sprog

en

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