

## SINUMERIK 828D / 840D sl Programming with advanced functions (NC-SINOPHP)

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### Objectives

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This course teaches you advanced programming methods for the SINUMERIK 828D / 840D sl.

The practical programming exercises on our training equipment form an important part of this course. To make the exercises even more practice-oriented, we use the graphical simulation of SINUMERIK Operate. This communicates the knowledge even more vividly and enhances learning success.

On completion of the course, you will be able to perform effective and memory-optimized programming of complex parts programs. In addition, you will become familiar with new possibilities for structuring program sequences. Thanks to the universal use of programs, you will save valuable time when setting up your machine tool.

### Target Group

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CNC-Programmers  
Commissioning engineers  
Engineering personnel

### Content

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Creation of cycles and complex programs for SINUMERIK 840D sl  
Variables, arithmetic parameters and fields  
Program jumps, control structures, REPEAT loop  
Arithmetic functions  
FRAME concept  
Protection areas  
Standard and Usercycles  
Macro technology  
Interrupt routines  
Spline and polynomial interpolation,  
Basics Transformations  
Synchronous actions  
Practical programming exercises on trainingracks 840D sl

### Prerequisites

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Basic knowledge according to the course NC-SINOP-P

### Note

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Machine-specific functions and special technological functions are not dealt with in this course.

### Type

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Face-to-face training

### Duration

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5 days

### Language

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