

## Programmieren SINUMERIK 828D / 840D sl mit SINUMERIK Operate (NC-SINOP-P)

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### Objectives

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In this course you will learn how to program part programs with DIN 66025, ShopMill and ShopTurn with selected high-level language commands as well as the creation of user programs.

The practical programming exercises on our training equipment are an important part of the course. This makes it possible to convey the knowledge even more clearly and to increase the learning success. The exercises can alternatively be carried out in DIN 66025 and/or ShopMill or ShopTurn.

After taking part in the course, you will be able to create part programs on your own and transfer workpiece drawings to a program. Your acquired know-how can significantly reduce the time required for programming.

### Content

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SINUMERIK System overview, configuration variants  
Operating modes, operating areas, controls  
file system, editor  
Programming with DIN 66 025 and selected high-level language commands or  
Programming with Shopmill/Shopturn and selected high-level language commands  
Subprogram technology  
Coordinate systems and FRAME concept  
Tool corrections  
Variables, calculation parameters and system variables  
Program jumps and control structures  
Macro-engineering  
Programming with standard cycles  
Data backup of programs  
safe static panning of a round axis (B-axis)  
Main and counter spindle programming (6 sample cases)  
Practical programming exercises on training equipment

### Type

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Face-to-face training

### Duration

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5 days

### Language

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