

## SINUMERIK Programming 2 (NC-PRO2)

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### Kurzbeschreibung

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In this course you will learn how to program machine tools for complex components.

### Ziele

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Your tasks will include programming machine tools to manufacture complex components. After the course, you will be able to create part programs based on workpiece drawings. You will program line-oriented using G-code and the ShopMill and ShopTurn graphical user interfaces. You will also use selected high-level language commands. You will also be able to create the user program.

### Zielgruppe

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Programmers

### Inhalte

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SINUMERIK system overview, configuration variants  
Operating modes, operating areas, operating elements  
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  
Subroutine technology  
Coordinate systems and FRAME concept  
Tool corrections  
Variables, calculation parameters and system variables  
Program jumps and control structures  
Macro technique  
Programming with standard cycles  
Data backup of programs  
Safe static tilting of a rotary axis (B axis)  
Main and counter spindle programming (6 sample cases)  
Practical programming exercises on training devices

### Teilnahmevoraussetzung

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It is recommended that the NC-SINOP-B course be taken prior to this course.

### Hinweise

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This course is suitable for users of the Siemens SINUMERIK ONE, SINUMERIK 828 and SINUMERIK 840D sl control systems. The user interface is the same in each case.  
This course is the successor to the NC-SINOP-P course. The content is comparable and updated.  
Dates will be offered from 01.01.2025. For dates in 2024, please see NC-SINOP-P.

### Typ

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Präsenztraining

### Dauer

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5 Tage

### Sprache

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