

## SINUMERIK Programmazione 2 (NC-PRO2)

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### Short Description

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

### Objectives

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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.

### Target Group

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- CNC Programmer

### Content

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- SINUMERIK system overview, configuration variants
- Operational modes, operational areas, operational elements
- File system, editor
- Arithmetic functions
- Programming with DIN 66 025 and selected high level commands or
- Programming with Shopmill/Shopturn and selected high-level language commands
- Subroutine technology
- Coordinate systems and FRAME concept
- R parameters
- Variables, calculation parameters and system variables
- Jump programs and control structures
- Macro technique
- Synchronous actions
- Programming with standard cycles
- Programming of the main spindle and counter spindle (6 sample cases)
- Practical programming exercises on training devices
- Measurement cycles

### Prerequisites

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We recommend taking the NC-PRO1 course before this course.

### Note

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This course is suitable for users of Siemens SINUMERIK ONE, SINUMERIK 828 and SINUMERIK 840D sl control systems. The user interface is the same either way.

### Type

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Face-to-face training

### Duration

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4 days

### Language

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