

## NC-840D-HL – SINUMERIK 840D/840D s1. Programming language of high level / Курс NC-840D-HL (SINUMERIK 840D/840D s1. SINUMERIK. Язык программирования высокого уровня) (NC-840D-HL)

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### Short Description

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The course is intended for the technologists-programmers who are developing the operating programs on machines with SINUMERIK 840D/840D s1 and having experience of programming for SINUMERIK machines which completed a basic course of programming of NC-84D-P. On a course questions of programming for SINUMERIK 840D/840D s1 are more profoundly considered.

### Content

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- Programming bases
- Change of the tool
- Movements of a spindle and alarm system
- Positioning of rotary axes and spindles, giving corrections, giving optimization
- Programmable shift of the tool, correction of radius of the tool and 2-D correction of the tool
- Giving regulation, positioning of axes
- Control modes by a trajectory, smoothing of a contour
- Frames
- Support functions
- Influence on acceleration of axes
- Types of data
- Calculation functions
- Indirect programming
- Transformation of types, interrelation with the STRING type
- Program transitions
- Branching of programs, repetition of sites of the program
- Cycles
- Coordination of work of programs in different channels
- Work with files
- Subprogrammes
- Change of level of access to data
- Use in the operating program of data on the tool
- Synchronous actions
- System variables, data of axes. Movement on a rigid emphasis

### Prerequisites

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Training on the course NC-84D-P or existence of basic knowledge on programming for SINUMERIK

### Type

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Face-to-face training

### Duration

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5 days

### Language

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