

## Programming Basics HMI-Advanced and SINUMERIK 840D and 840D sl (NC-84D-P)

---

### Ziele

---

In this course, you will learn how to program parts programs with DIN 66025 and selected high-level language commands. You will also learn how to create user programs.

The practical program exercises on our training equipment form an important part of the course. To make the exercises even more practice-oriented, we offer graphical simulation of machinery. This communicates the knowledge even more vividly and increases learning success. On completion of the course, you will be able to autonomously create parts programs and convert workpiece drawings into a program. The knowledge you gain will enable you to shorten programming times and reduce the engineering overhead.

### Zielgruppe

---

CNC-Programmers

### Inhalte

---

SINUMERIK system overview, configuration variants  
Operating modes, operating areas, operator elements  
Introduction to operation  
File system, editor  
Programming with DIN 66 025 and selected high-level language commands  
Subroutines  
Coordinate systems and FRAME concept  
Tool compensations  
Variables, arithmetic parameters and system variables  
Program jumps and control structures  
Macro technology  
Parameterization of standard cycles  
Creation of user subroutines  
Program data backup  
Practical program exercises on training models

### Teilnahmevoraussetzung

---

Basic knowledge of automatization

### Hinweise

---

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

### Typ

---

Präsenztraining

### Dauer

---

5 Tage

### Sprache

---

en