

## SINUMERIK High Level Programming (NC-PRO-HP)

---

### Descrição resumida

---

In this course, you will learn how to program machine tools using high-level language.

### Objetivos

---

This course teaches you advanced programming techniques for the latest SINUMERIK controllers.

The practical programming exercises on our specially developed training equipment are an important part of this training. To make the exercises even more practical, we use the graphical simulation from SINUMERIK Operate. This allows the knowledge to be conveyed even more vividly and the learning success can be increased.

After the end of the course, you will be able to carry out the effective and memory-optimized programming of complex part programs. In addition, you will be familiar with new possibilities for designing program sequences. The universal use of programs saves you valuable time when setting up your machine tool.

### Grupo alvo

---

Commissioning engineers  
Engineering personnel  
CNC-Programmers

### Conteúdo

---

Creation of cycles and complex programs for SINUMERIK  
Variables, arithmetic parameters and fields  
Program jumps, control structures, REPEAT loop  
Arithmetic functions  
FRAME concept  
Protection areas  
Standard and Usercycles  
Macro technology  
Interrupt routines  
Spline and polynomial interpolation,  
Basics Transformations  
Synchronous actions  
Practical programming exercises on trainingracks 840D sl

### Pré-requisitos

---

Basic knowledge according to the course NC-PRO2

### Observações

---

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) – starting one week before the start of the course until two weeks after the end of the course.

With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

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-SINOPHP course. The content is comparable and updated.

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

### Tipo

---

Treinamento presencial

### Duração

---

5 dias

### Idioma

---

en