

# Course description:

**Course name:** Programming course for CNC multi-spindle machine of the MS22C / MS40C / MS52C3 series with Siemens Solutionline

---

**Course no.:** 69

---

**Participants:** Programmers and operators

---

## Training goal:

- Manual programming of MS machines with additional equipment.
- 

## Course content:

- Fundamentals of programming
  - Channel structure
  - Job list/INDEX.INI
  - G and M functions
  - Preparatory functions
  - Tool data
  - Parameters/variables
  - Program branches
  - Subprograms/user cycles
  - C axis
  - Manufacturer cycles
  - POS axes
  - Block skip levels
  - Workpiece management
  - Counter spindle
  - Options as far as available on customer machines:
    - Freely programmable interface
    - Y axis
    - Transmit/Tracyl
    - Loading magazine
    - Polygonal turning
  - The ARTIS tool breakage monitoring option will not be covered. Such training is carried out by ARTIS.
- 

## Participation requirements:

- Sound knowledge in manual programming of CNC lathes.  
Acquired by attending a basic training course or through long practice.
- 

## Course duration:

4.5 days - from Monday (9:00 am) to Friday (12:00 pm)

---

## Course location:

### **INDEX-Werke GmbH & Co. KG Hahn & Tessky**

Reichenbach Plant  
Hauffstrasse 4  
73262 Reichenbach, Germany

Email: [schulung@index-werke.de](mailto:schulung@index-werke.de)  
Phone +49-7153-502-525