

# Course description:

**Course name:** Programming course for CNC multi-spindle machine of the MS32 C2 series with Siemens Solutionline

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**Course no.:** 62

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**Participants:** Programmers and operators

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## Training goal:

- Manual programming of MS machines with additional equipment.
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## 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.
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## Participation requirements:

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

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

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## Course location:

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

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