

# Course description:

**Course name:** Operator course  
for CNC multi-spindle machines MS16 / MS16 plus / MS22 / MS32C2 / MS40 / MS52  
with Siemens Solutionline

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**Course no.:** 190

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**Participants:** Operators

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## Training goal:

- Operating the machine in setup mode, automatic mode, and in case of interruptions.
  - The course provides no detailed programming skills.
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## Course content:

### Machine

- Basic features: Working area, hydraulic room, spindle carrier, tool carrier

### Control

- Structure, functions, error texts
- iXpanel - operation and functionality
- Access security concept

### Setting up the machine / operating units

- User settings: Sequence spindles, axes, material flow, workpiece clamping, cooling lubricant, process monitoring, hydraulic/pneumatic units, control panel
- Setup: Tool carrier, channel group / settings
- Working with open work area doors, installation and removal of spindle liner tubes
- Feeder (MS16 only)
- Controlling automatic sequence: Releasing the loading, advancing, machining 1 workpiece

### Tools

- Gauging, setup, alignment, creating tools, entering tool data, tool offset, TOA data backup

### Program

- Select, structure, open, change, delete, paste, copy
- Cycle supporting images

### Additional devices (structure, functions, settings)

- Loading magazine
  - coolant cleaning system
  - drive units
  - Clamping devices
  - Synchronized spindle
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## Participation requirements:

- Sound technological knowledge of turning.
  - Recommendation: Knowledge of NC/CNC fundamentals.
  - **Safety shoes must be brought along and worn during the entire course.**
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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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