

Course description:

Course name: **Servicing course in mechanics and hydraulics
for CNC multi-spindle machines MS22 / MS22-8 / MS32C2 / MS40 / MS40-8
with Siemens Solutionline**

Course no.: **197**

Participants: **Maintenance personnel**

Training goal:

- Basic maintenance work
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Course content:

- Functions to ensure occupational safety
 - Maintenance instructions of the machine
 - Mechanical system
 - Structure and working principle of the Machine
 - Axis drives
 - Assembly and replacement, support arm, motor, ball screw, lubrication
 - Cross slide
 - Setup and replacement, adjustment of jib play after a collision
 - Setting geometry, center height and synchronized spindle after a collision
 - Measuring and adjusting ball screw backlash
 - Measuring and adjusting reference points
 - Bar clamping
 - Setting base body, removal, cleaning and care, replacement of clamping cylinder
 - Hydraulic system
 - Interaction between hydraulics, pneumatics, cooling circuit, electrics, sensors
 - Hydraulic system
 - System pressure, hydrostatic, central lubrication, monitoring, filter replacement
 - Auxiliary units
 - Bar loading magazine
 - Chip removal
 - Cutting oil cleaning system
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Participation requirements:

- Practical experience in servicing/maintenance.
 - **Safety shoes must be brought along and worn during the entire course.**
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Course duration:

3 days - Monday (9:00 am) to Wednesday (4:00 pm)

Course location:

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

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