

# Course description:

**Course name:** Servicing and maintenance course for CNC lathes of the TNX 65/42 series with milling spindle

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**Course no.:** 5.5

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**Participants:** Machine operators, service, repair and maintenance specialists

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**Training goal:**

Troubleshooting and maintenance of mechanical and electrical assemblies of CNC lathes

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**Course content:**

- Machine layout and assemblies
  - Names of spindles, axes, tool turrets and hydraulic components
  - Control axes and spindle components
  - Handling on the screen, operating modes
  - Checking and adjusting the backlash compensation of linear axes
  - Checking and adjusting geometry and reference points
  - Turret indexing and live tools
  - Diagnosing inputs and outputs of the PLC control
  - Performing parameter backup
  - Hydraulic diagram, pneumatic diagram, central lubrication, fluid diagram, electrical diagram, and spare parts catalog
  - Troubleshooting
  - Maintenance instructions
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**Participation requirements:**

- General knowledge of machine tools
  - Basic knowledge: Mechanics, electrics and electronics
  - **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**

Reichenbach Plant  
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