

# Course description:

**Course name:** Operator course for CNC lathes of the TNL18-9 series

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**Course no.:** 2.50

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**Participants:** Operators

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## Training goal:

The course participant will be able to:

- Operate the machine and control
  - Use tool handling and programming technology
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## Course content:

A turned part will be set up and manufactured from input of the program (via data carrier and manual input) including changing and optimizing.

The following topics will be covered and practiced on the machine:

- Structure and working principle of CNC lathes
  - Operation of machine and NC control panel
  - Setup operation, explaining F0
  - MDI operation
  - Collet change / pressure adjustment MSP/CSP
  - Tool gauging, tool data entry, tool life monitoring
  - Tool life monitoring
  - Installing tools in the machine
  - Testing programs in dry run and single block mode and checking for errors
  - Using the axis display Tool Pos, distance to go, G-modal
  - Program run-in
  - Program interrupt and continue
  - Entry
  - Program optimization, tool offset, etc.
  - Explanation of all the important menus on the control panel
  - Activating subprograms
  - Setup settings, program parameters, check alarms
  - PLC switches, key switch
  - Procedure after collision, axis calibration
  - Data input/output
  - Safety devices,
  - Alarms, error diagnostics and program error correction
  - iXpanel - operation and functionality
  - Access security concept
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## Participation requirements:

- Programming basic course TX8i s control no. 2.5
  - **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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