

Course description:

Course name: Operator course for CNC fixed headstock automatics of the TNK36 series

Course no.: 1.10

Participants: Operators

Training goal:

- The participant will be able to operate the machine and control system
 - Safely and reliably 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
 - 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
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Participation requirements:

- Programming basic course TX8i Control no. 1.0
 - **Safety shoes must be brought along and worn during the entire course.**
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Course duration:

2 days - Wednesday (1:00 pm) to Friday (12:00 pm)

Course location:

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