

Course description:

Course name: Programming and operator course for CNC lathes of the TNL18P series

Course no.: 2.4

Participants: Programmers and operators

Training goal:

- Learning the TX8i-p-specific programming technique
 - Creating complete programs with the most common machining applications.
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Course content:

- Zero offsets of all systems on main/counter spindle
 - Using the geometry processor
 - Dialog functions, init, gripping, cutting off
 - Synchro
 - Cycle programming for roughing, drilling, threading
 - Subroutine technique/macro call
 - Creating a part program for a simple turned part
 - Input and simulation of a part program on the PC
 - Structure and working principle of CNC lathes
 - Operation of machine and NC control panel
 - Setup operation, explaining F0
 - Collet change / pressure adjustment MSP / CSP
 - Tool measurement, tool data entry, 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
 - Program optimization, tool offset, etc.
 - Activating subprograms
 - Setup settings, program parameters, check alarms
 - PLC switches, key switch
 - Procedure after collision, axis calibration
 - Data input/output
 - Alarms, error diagnostics and program error correction,
 - Changeover from sliding to fixed headstock operation and vice versa
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Participation requirements:

- Basic knowledge of CNC technology
 - PC basic knowledge and experience with Traub CNC machines are recommended
 - **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)

Course location:

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