# **Course description:**



Course name: Operator course for CNC lathes of the TNX 65/42 series with milling spindle

Course no.: 4.50

Participants: Operators

### **Training goal:**

The course participant will be able to:

- · Operate the machine and control
- Safely and reliably use tool handling and programming technology

#### **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

### **Participation requirements:**

- Programming basic course no. 4.0 and advanced course no. 4.5
- Safety shoes must be brought along and worn during the entire course.

## Course duration:

4.5 days - from Monday (9:00 am) to Friday (12:00 pm)

#### **Course location:**

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