Programming and handling CT20 / Swiss DT / Swiss GT / Swiss ST

CT-DT-GT-ST training courses

Objectives of the training

- *Creation of a program based on an existing model*
- *Configure the machine according to the program*

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T*arget audience*	• *CNC machine operators and programmers*
Prerequisite	• K*nowledge of Windows* • K*nowledge of ISO programming*
Participants	*3 to 6 people*
Duration	*3 days*
Language	*English*
Location	*Tornos SA, Rue industrielle 111, 2740 Moutier*
Services	*Courses and related documentation, one meal a day*

In case of participation of less than 3 people, Tornos Academy reserves the right to defer the date of the training.

Contents of the training

Introduction
- *Presentation of the kinematics (machine / origin / axis travel, fixing points)*
- *Switching on/off of electrical elements*
- *Description of DCS safety devices*

Programming
- *Program structure analysis (initialization, principal, bar loading, etc.)*
- *Global variable review and part information (PF zone, article support geometry, tool geometry)*
- *Tool catalog creation and geometry adjustment*
  - Study of the ISO code and the macros of a model
    - *Main machining macro explanation*

Handling
- *Using MDI, JOG, AUTO modes*
- *Disassembly / assembly / adjustment*
  - *Capacities (collet, guidebush, guides, ejector, parameters)*
  - *Fixed tools (turning, drilling)*
  - *Motorized tools and supports*
- *Configuration and setting of tools*
- *Presetting of the Applitec plate*
- *Cutting oil lubrication management*
- B*arfeeder handling and adjustment (official Tornos models)*

Production of a part for the exercise
- *Standard part machining*
- *Part program management*

O*thers*
- *Discovery of the different options available from the TMI*
- *Review of the maintenance plan*