

PTSA SHORT COURSE

Heidenhain 5 Axis Machining

[PTSA 04.022]

Course description and information

The course covers aspects related to 5-axis machining using the Heidenhain control with an emphasis on different NC Program format outputs as well as control functions for efficient accurate machining. A CAM system is necessary to output these different formats.

Objectives

The objective of the course is to teach learners the functionality of the Heidenhain iTNC 530 control related to 5-axis machining.

Course duration 2 Full days at a regional PtSA Centre of Excellence	Cost *R 5 050 (excl VAT) per attendee Subject to group minimum size
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**All required learning material and access to the relevant software during the course is included in the price.*

Registration

Participants should register through the relevant PtSA (Production Technologies Association of South Africa) Regional Centre of Excellence offering the course. See www.ptsa.co.za for contact information.

Course content

- Fundamentals of CAD/CAM
- Output Formats of NC Programs
- TCPM FUNCTION, M128, M114
- 3-D Tool Radius Compensation
- Possibilities for the Optimisation of NC Programs
- Options: KinematicOpt, GS

Outcomes/Understanding/Theory

- Fundamentals related to CAD/CAM
- NC programs output formats
- TCPM function & related M functions
- 3-D tool radius compensation
- Optimise NC programs
- Kinematics options

Assessment

Completed theory and practical exam based on the manual with a minimum pass mark of 60%.

Training manual

Heidenhain 5-Axis Machining Training Handbook.