

PTSA SHORT COURSE

Heidenhain FK Programming

[PTSA 04.007.01]

Course description and information

The FK programming course is an advanced training course whereby you can program a part if the workpiece drawing is not dimensioned for NC and the grey path function keys cannot be used. All geometric values given in the drawing must be complete.

Objectives

To use HEIDENHAIN conversational programming and to create and test programs from workpiece drawings not dimensioned for NC programming.

Course duration 1 Day at a regional PtSA Centre of Excellence	Cost *R 2 525 (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
- AN & PA Directional Data
- Converting FK Programs
- Block End Points
- Directional & Orientation Data
- Auxiliary Points
- Circle Data, Circle Centre Points

Outcomes/Understanding/Theory

- Fundamentals of FK programming
- FK programming requirements
- How to initiate FK dialogs
- Interactive programming graphics
- Overview of functions
- AN & PA directional data
- Convert FK programs
- Block end points with Cartesian & polar coordinates
- Directional & orientation data
- Auxiliary points including PnX, PnY, PDX and PDY
- Circle data & circle centre points
- Programming issues tips & tricks

Assessment

Written exam with a minimum pass mark of 60%.

Training manual

NC Programming – Heidenhain FK Free Contouring.