

1. Process gas
2. Cutting nozzle
3. Nozzle offset
4. Cutting speed
5. Molten material
6. Dross
7. Cut roughness
8. Heat affected zone
9. Kerf width

IKUSASA

CNC TRAINING CENTRE

WE ARE THE *FUTURE*

MASTERCAM INTRODUCTORY

www.ikusasatraining.co.za

MASTERCAM COURSES

MASTERCAM Introductory

Requirements: General Computer skills is mandatory, basic understanding of Machining, basic understanding of Cad / Cam Software will be beneficial

Duration: 3 Saturdays

Time: 09:00 – 16:00

OVERVIEW

MASTERCAM is a suite of Computer-Aided Manufacturing (CAM) and CAD/CAM software applications allowing users to design and manufacture parts using a highly sophisticated tool-control technology.

MASTERCAM successfully incorporates several computer-aided tools in order to provide users with the ability to manufacture a variety of parts, users can also create and cut parts using one of many supplied machine and controlled definitions or you can use MASTERCAMs tools to create your own customised definitions.

Our basic MASTERCAM Training course is designed for your every-day user who could be a CNC Programmer / Fitter & Turner / Toolmaker or eve workshop staff & students. This course covers the complete basics of MASTERCAM software leaving the delegate with a basic understanding of how to operate MASTERCAM software.

The course consists of 3 Saturdays in-class where we cover the complete basics in terms of:

1.Introduction to MASTERCAM

- User Interface Introduction
- Basic of Part Creation (Creating 2D Models and Creating 3D Models from a 2D wireframe)

- Basic of Part Machining (Machining in a Turning environment, machining in a Milling environment and machining with a wireframe and solid model)
- MASTERCAMS machining cycle
- SOLID CREATION

2. Axis Turn Machining

- Stock Creation
- Facing
- Rough Turn
- Finish Turn
- OD Grooving (Rough and Finish)
- OD Threading
- Drilling
- Wireframe Creation

3. Axis 2D Milling

- Stock Creation
- Face Milling
- Drilling
- Tapping
- Pocket Machining
- Contour Machining
- 2D HS Dynamic contour
- Chamfer and Countersink
- Wireframe Creation

4. Test write day

- A quick example of milling and Turning machining
- Write a milling and turning test
- Trainees require to Design the given drawings and complete machine them as instructed in the test
- Only successful trainees who manage to write the test as required will attain their certificates a week after the test has been written