

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 INTERMEDIATE

[www.ikusasatraining.co.za](http://www.ikusasatraining.co.za)

# MASTERCAM COURSES

## MASTERCAM Intermediate

**Requirements:** General computer skills is mandatory; completion of the Introductory MASTERCAM Part Time course is mandatory.

**Duration:** 2 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 MASTERCAM's 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 2 Saturdays in-class where we cover the complete basics in terms of:

## 1. Creating Solids

- Loading Solid Models from different format types.
- Rotating and translating components to correct view plane.
- Revolving Wireframe.
- Extruding Wireframe.
- Add Solid, Cut Bodies and Boolean.
- Direct Solid Editing.

## 2. Lathe Machining

- Setting up the environment for lath machining.
- WPL Creation.
- Design a lathe part to create a solid form.
- Stock creation and machine setup.
- Face, OD Rough and finish, Cut Off.
- Machine part including boring, ID Threading.
- Practice Part.

## 3. Milling

- Design a milling solid part.
- Stock creation for milling.
- Face Stock material.
- Profile cut with Absolute, Incremental and Associative depths.
- Multiple Depths using associative.
- Contour finish.
- Blend Mill, Dynamic Milling, Chamfer and Engraving.
- Helical Machining and Thread Milling.
- Practice Part.

## 4. Practise Parts & Tests

- 1 X Milling Test Example.
- 1 X Turning Test Example.
- 1 X Milling Test.
- 1 X Turning Test.