

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

EDGE CAM INTRODUCTORY

www.ikusasatraining.co.za

EDGECAM COURSES

EDGECAM Introductory

Requirements: General computer skills is mandatory.

Duration: 3 Saturdays

Time: 09:00 – 16:00

OVERVIEW

EDGECAM is a top computer-aided manufacturing (CAM) system for NC part programming, recognized for its user-friendliness and advanced tool-path generation, suitable for milling, turning, and mill-turn machining.

EDGECAM leverages your in-house expertise and automation tools to enhance the CAM process for various applications, helping you maintain a competitive advantage.

Our EDGECAM Introductory training course is designed for users looking to enhance their skills with more features in EDGECAM operations.

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

1. Introductory to EDGECAM interface & user commands.

- Icons and commands use
- Basic designing protocols. (Polar coordinates and Cartesian planes, absolute and incremental positioning)
- Line, arc, points designing and understanding
- Designing basic shapes
- Milling environment vs Turning environment

2. Continued designing aspects

- All drawings designing in wireframe
- Editing entities, e.g., blending radius, chamfer, changing entity colour, layer creation & grouping
- Translating, rotating, mirroring, transposing entities
- Trimming entities
- Example drawing exercise in both milling & turning

3. Milling machining

- Stock creation & selection of the correct machine to machine the job into
- Milling operation commands, e.g., Face mill, rough mill, profile milling, drilling holes, tapping holes, chamfering, Flatland Finishing
- Completely machine a component as a wireframe
- Simulation
- Generating NC code
- More exercises for the trainees

4. Turning Machining

- Stock creation and selection of the correct turning machine
- Turning operations, e.g., rough turning, Finish turning, grooving, finish groove, thread turn, drilling, tapping.
- Machine a complete turning wireframe component using turning operations.
- Simulation
- Generate Nc code
- More exercises similar to above but on different drawing shapes

5. Last day-Testing write day

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