

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 INTERMEDIATE

www.ikusasatraining.co.za

EDGECAM COURSES

EDGECAM Intermediate

Requirements: General computer skills is mandatory; completion of the Introductory CAD/CAM Part Time course is mandatory.

Duration: 2 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 Intermediate training course is designed for users looking to enhance their skills with more features in EDGECAM operations.

The course consists of 2 Saturdays in-class where we cover the complete basics in terms of:

1. Solid Machinist

- EDGECAM Solid Loading Preferences.
- Advanced Solid Alignment Options.
- Feature Finding
- Advanced Feature Finding/ Manual Feature Finding or Creations.
- Understanding contour walls and bosses.
- Generating 2d geometry from solid models
- Generating 3d geometry from solid models
- Automatic machining preferences, e.g. slot machining preferences.
- Use of features as boundaries.
- Feature properties and associativity.

2. Standard Milling Cycles

- Roughing cycles approach lead & links settings.
- Waveform roughing cycles.
- Rest roughing cycles.
- Rest profiling cycles.
- Contour wall machining, draft wall settings.
- Cusp control on the wireframe.
- Machining optimization control.
- Fixture control while machining.
- Thread milling cycles.

3. Turning Cycles

- Understanding turning features.
- Turned envelope creation.
- Creating threads from solid models.
- Waveform turning cycles.
- Use of button tools.

4. Productivity Toolbox

- Understanding SQL database in relation to Edgecam's tool store database.
- Creating stocks & textures.
- Tool store administrator database.
- Creating tools, milling, turning, and drilling tools from solid models.
- Creating an empty tool store database & activating.
- Technology assistant database – linking cutting inserts to materials.
- Creating job manager/ toolkits.
- Associating inserts to tools.
- Live job reports

5. Test Day

- 1 x milling test example.
- 1 x turning test example.
- 1 x milling test.
- 1 x turning test.