

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*

G-CODE

MILLING LEVEL 2

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G-CODE COURSES

G-Code Milling Level 2

Requirements: A foundational understanding of basic CNC programming is essential, and having access to and familiarity with CNC control is highly recommended.

Duration: 2 Saturdays

Time: 09:00 - 16:00

Inclusions: Coffee/tea during 15 minute break, all relevant stationary including Training Manual, use of calculator and mathematical set for duration of course. competency certificate upon completion of and being found competent on theory test.

OVERVIEW

The Level 2 G Code-Milling course is ideal for junior CNC programmers seeking to enhance their skills. Participants will learn industry terminology, speeds, feed rates, and machining principles in the CNC context.

The course aims to enhance students' programming skills for cost-effective component production. It emphasizes planning for tooling, magazine layout, and techniques to improve efficiency before reaching the machine.

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

- Terminology (what is a mill/lathe, g -code etc.)
- Advanced Trigonometry Calculations
- Machine Co-ordinate systems
- Preparatory Functions
- Writing and understanding G-Code & M-Code
- Advanced CNC Programming Techniques
- Absolute vs Incremental Programming
- All machining cycles related to CNC Mill