iKUSASA©

CNC TRAINING CENTRE

WE ARE THE *FUTURE*

G-CODE

MILLING LEVEL 1

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iKUSASA
CNC TRAINING CENTRE

G-CODE COURSES

G-Code Millng Level 1

Requirements: A solid understanding of CNC concepts would be beneficial, and having access to CNC control is highly recommended.

Duration: 2 Saturdays

Time: 09:00 – 16:00

Inclusions: Coffee/tea during 15-minute break, all relevant stationery including the Training Manual, competency certificate upon completion & being found competent on theory test (written CNC programme)

OVERVIEW

The Level 1 G Code - Milling course is ideal for those starting a career in CNC programming, especially operators or setters seeking to enhance their knowledge. Participants will learn essential terminology and the application of speeds, feed rates, and machining principles in CNC programming.

The course aims to instill an optimal mindset for cost-effective component manufacturing. It encourages early consideration of tooling, magazine layout, and clamping methods, emphasizing that thorough planning before machine operations leads to greater efficiency in the final results.

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.)
- Basic Calculations
- Machine Co-ordinate systems
- Preparatory Functions
- Writing and understanding G-Code & M-Code
- Basic ISO Program creation
- Absolute vs Incremental Programming
- All machining cycles related to CNC Mill