

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

4 MAGNETIC CHARGER KEEP-OUT
DO NOT OBSTRUCT
THE CHARGING PAD

6 HEART RATE SENSOR
KEEP-OUT
NO THICKNESS
BEYOND THIS
IN WATCH
DIRECTION

IKUSASA®

CNC TRAINING CENTRE

WE ARE THE FUTURE

G-CODE

TURNING LEVEL 2

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G-CODE COURSES

G-Code Turning Level 2

Requirements: A fundamental understanding of basic CNC programming is essential, and having access to CNC control along with knowledge of its operation 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 - Turning course is ideal for junior CNC programmers aiming to enhance their skills. Participants will learn industry terminology, and the application of speeds, feed rates, and machining principles in advanced CNC programming environments.

The course aims to advance students' programming skills for cost-effective production. It encourages proactive thinking about tooling, turret layout, and clamping techniques, promoting careful program planning to improve job efficiency.

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 Lathe

