

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

TURNING LEVEL 1

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G-CODE COURSES

G-Code Turning Level 1

Requirements: A solid understanding of general CNC concepts would be beneficial, and access to 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, competency certificate upon completion of and being found competent on theory test (written CNC programme).

OVERVIEW

The Level 1 G Code - Turning course is designed for aspiring CNC programmers and benefits operators and setters looking to improve their CNC programming knowledge. Participants will learn essential terminology and the application of speeds, feed rates, and machining principles in CNC operations.

The course aims to help you grasp cost-effective manufacturing processes. It emphasizes planning aspects like tooling, turret layout, and clamping methods beforehand to enhance job efficiency when it reaches 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.)
- 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 Lathe

