COURSE BROCHURE

G-code, M-code & CNC Programme Debugging

Diploma, Vocational & Skills / CNC & Precision Manufacturing

One-time full-course fee

INR 2,499

Access

12 months course access

Study plan

14-20 suggested study hours; 12 months access

Learning format

Eight self-paced written lessons in English, original worked examples, paper or digital exercises, explained knowledge checks and a capstone with a model solution and self-assessment rubric. Automated Course Tutor support is available in the LMS.

Programme overview

Eight written lessons teaching controller-specific code literacy, modal-state tracing, units, arcs, offsets, cycles, subprograms and a final offline fault-review dossier. Not machine operation or a universal controller reference; no equipment, licence, live teaching, human marking or manufacturer certification included. Eight self-paced written lessons in English, original worked examples, paper or digital exercises, explained knowledge checks and a capstone with a model solution and self-assessment rubric. Automated Course Tutor support is available in the LMS. Online theory and planning only. Physical machine practice requires separate qualified supervision and machine-specific authorisation. No machine time, software or simulator licence, live instructor, recorded lecture series, individual human marking, employment guarantee, ITI/DGT/NSQF qualification or manufacturer accreditation is included. Programme examples are for offline interpretation or simulation and are not ready-to-run machine instructions. Programming concepts overlap Turning and Milling, with deeper comparative debugging exercises here. Related purchases are optional.

Who this is for

1. Basic familiarity with CNC turning or milling and reading a coordinate table.
2. Use the supplied fictional parts and data. Do not upload confidential employer drawings. Use only software you are entitled to use; paper alternatives are available.

Published topics and learning focus

1. G-code grammar, controller identity and offline study boundaries
2. Block-by-block modal-state and coordinate tracing
3. Unit, diameter/radius and feed-mode debugging
4. Arc geometry, plane selection and centre conventions
5. Work offsets, tool references and compensation defects
6. Canned cycles, subprogram contracts and repetition counts
7. Controlled debugging, evidence and regression checks
8. Capstone: faulty-programme review dossier

Before you choose

1. These are published programme highlights, not certification of complete syllabus coverage. Review the available reading index and programme trial before enrolling.
2. ZELVU provides learning support. It does not award the underlying degree, professional registration or an examination result.
3. Current checkout terms and refund policy apply. Payment and access require successful provider verification.

Take the next step

Explore the programme trial

View current details, scope and terms

Ask ZELVU about this programme

Save this brochure for reference. Details can change: confirm the current programme page and checkout before making a purchase.