Manufacturing Technology Training
An IMTMA initiative

Advanced Programming for CNC Machining Centres
Date : 3 to 6 February, 2026
Venue : IMTMA Technology Centre, Pune

INTRODUCTION

CNC Machining Centres form the core of manufacturing operations right from producing auto parts to machine critical aero space components. Its effective application can ensure increased productivity, highest accuracy, rigidity and improved surface finish. A range of components can be consistently manufactured to very close tolerances, leading to improved quality; efficient production process; reduced costs and bare minimum cycle times. In modern CNC machine shops, every second counts and the CNC programme drives the machine efficiency and productivity. Many a times, the CNC programme contains lot of idle movements (air cutting) and is not optimized for minimum cycle time. Enhanced knowledge on CNC programming and its control features are now very critical to keep the cost per component to the minimum.

FOCUS AREAS

- Optimization of programming for various Machining Centre operations
- Programming using macros & variables
- Demo in CNC VMC; usage of customized programmes and rigid tapping & thread milling applications
- Advanced programming concepts - polar co-ordinates, Scaling, Mirror & Rotation
- Introduction to CAM programming; applications & advantages
- Demo of milling applications & Programming exercises in CADEM
- Simulation using SINUTRAIN and NCGUIDE system
- Real time machining of CAM programmes in CNC Machining Centre

KEY TAKE AWAYS

After undergoing the programme, the participants will be able to –

- Reduce cycle time thro optimization of Programming
- Learn Programming using Macros and Variables
- Understand advanced Programming concepts including Scaling, Mirror, Polar Co-ordinates etc.
- Go thro' Hands-On / Demo Of advanced Programming concepts in CNC VMC.

PARTICIPATION FEE

Rs. 7999/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 320/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

PARTICIPANT PROFILE

This programme will benefit Managers, Engineers, Supervisors, CNC Programmers & others involved in the functions of Production, Manufacturing Servicing and other related functions from Machine Tool, Automobile and Auto ancillaries, Tool rooms, Aerospace, Defence & Railway establishments, General Engg. and other manufacturing industries. This will be an advanced level training programme. Knowledge about Basic CNC Programming and Operation will be a pre requisite for participants.

FACULTY

This program will be conducted by **Mr. Yuvaraj Patil.**
Mr. Yuvaraj Patil is a mechanical engineer having more than 16 years of experience in CNC Machine Shop & Tool Room. He has worked with various companies – ASB International, Videocon, Menon & Menon and PARI. Additionally, he has 9+ years of experience in training engineers in CNC Machining area with hands-on practice. He has trained 2000+ Industry professionals in the CNC Machining area, Dimensional Metrology, and Inspection. And trained 400+ fresh graduate mechanical engineers in Production engineering for making engineers industry ready. Also, he has conducted the training program on Machining fundamentals, Dimensional Metrology, and GD & T for Sigma Electrical, Maruti Suzuki, Volkswagen, Mahindra and ENPRO.

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REGISTRATION : Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.
Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.