Manufacturing Technology Training
An IMTMA initiative

FINISHING SCHOOL IN PRODUCTION ENGINEERING - Making Engineers Industry Ready

Date : 7 November to 17 December, 2022
Venue : IMTMA Technology Centre, Bengaluru

Last date for registration 31 October 2022

Early Bird Offer : Avail 10% concession by registering and paying online on or before 23 October 2022

INTRODUCTION

Indian Machine Tool Manufacturers' Association (IMTMA) is organizing an exclusive hands-on training course namely **" Finishing School in Production Engineering"** at IMTMA Technology Centre, Bangalore.

This 6-week course will be very much suitable for fresh recruits. They are trained in the latest manufacturing practices with major topics covering Engineering drawing, Limits, Fits & Tolerances, GD&T, Process planning, selection of cutting tools & machining parameters, CNC Programming, CNC machine operations/ machining in Turning & Machining centers, Measuring instruments, CMM and work holding accessories. **Thus the trainees are well prepared to serve manufacturing industries right from day ONE**.

Fresh Mechanical Engineering students who had completed this course could also perform exceptionally well in interviews and many of them get recruited in industries including **Ace Micromatic, Bharath Fritz Werner, Cadem Technologies, Insight Technologies, Jyoti CNC, Kennametal India, Kirloskar Toyoda Textile Machinery (KTTM), Marposs India, Maini Precision, Otto Bilz, Sansera Engineering, UCAM India, Taegutec India, Titan, Toyota Kirloskar Auto Parts, Toyota Industries Engine India Pvt. Ltd., Yuken, Zoller, etc**.

Participant's Feedback

I have completed a 1-month intensive course on "Finishing school in Production Engineering" during my academics in IMTMA. I got theoretical and practical knowledge, on complete CNC and manufacturing processes. This training helped me to clear my interviews and I got placed in Kennametal. I would like to thank IMTMA and its faculty for their kind support.

Ms. Punya C

School of Engineering and Technology, Jain University

Junior Engineer at Kennametal India

I gained in-depth knowledge of CNC Machines, process planning, simulation, programming, machining, and quality control. It is hard to digest all things at once, but there was a good amount of knowledge & learnings shared by all the staffs and they were very helpful in clearing all my doubts, during the training course

Hemanth Kumar PB

Acharya Institute of Technology, VTU

Shopfloor In-charge at Ucam

FOCUS AREAS

- **Manufacturing Drawing including Interpretation**
- Workshop practices on conventional machines
- **Limits, Fits, Tolerances, GD&T, Surface Roughness: Importance in manufacturing**
- Various Machining processes and cutting parameters
- **Dimensional Metrology and Measuring Instruments**
- Types of engineering materials, properties, and Heat treatment processes
- **Process Planning for manufacturing**
- Work holding and Fixturing
- Cutting Tools and Tool Holders for various metal cutting processes
- **Hands-on practice in CNC Turning and Machining centers**
- CNC Programming: Basics and advanced
- Dimensional and Geometric Tolerances: Measurement & Quality Control
- **Hands-on practice in measuring instruments**
- Hands-on practice in Tooling, Work Holding, and other accessories
- **Introduction to statistical process control (SPC)**
- **5S concepts** and Autonomous Maintenance (JH) – one of the main pillars of TPM
- **Soft skills development**
- Presentation Skills, E-mail etiquette
- **Project work: complete procedure for converting a DRAWING to PART**
- Overview of I4.0 in a production shop
- **Assessment through the presentation, test, viva, and practicals**

KEY TAKE AWAYS

After undergoing the program, the participants will gain:

- **Comprehensive Hands-on knowledge of production to despatch**
- Gain Confidence and competitiveness to be a successful production engineer
- **Exponential career growth in manufacturing industries**
- In-depth understanding of CNC machines and their aggregates
- **Thorough knowledge of CNC programming and its optimization for higher productivity**
- Confident to take the right decisions on machines, processes, tools, and fixtures based on process planning
- **Collaborative working skills with people, machines, and process**
- A complete insight into Computer Integrated modern Manufacturing environment
- **Ability to develop process plan for machined parts**
- Practical inputs about the selection of tools & cutting parameters for various CNC machining operations
- **Practice in Measuring instruments and equipment for quality control of parts**

Training Methodology

- **Training in Industry 4.0 enabled modern Digital Factory with CNC machines, CAD/CAM/CAE, CMM, and Robots**
- **Learning by Doing:** Blend of Classroom (40%) and practical sessions (60%)
- Exercises in Manufacturing Drawing, Process Planning, Tooling, and Fixturing
- **Hands-on training** sessions in CNC Turning & Vertical Machining Centres
- CNC Programming using Simulation of FANUC, SIEMENS, and MITSUBISHI control systems.
- **Project work with real-time machining** of components in CNC machines
- Hands-on practice in various measuring instruments used in the production shop
- Presentation / Exercises to acquire the necessary Soft skills
- **Weekly Assignments and Tests**
- Mock interviews with preparation for placement interviews
- **Final evaluation and certification**

Facilities

IMTMA Technology Centre at BIEC is equipped with state-of-the-art training facilities viz.

- *Industry 4.0 enabled Digital Factory with CNC machines, CAD/CAM/CAE and accessories*
- *CNC Vertical Machining Centre & CNC Turning Centre*
- *CNC Simulators for FANUC, SIEMENS and MITSUBISHI controllers*
- *Metrology Lab with common measuring instruments, digital height gauge, profile projector, roundness tester, Vision Measuring Machine and CMM*
- *Robots for pick & place and welding applications*
- *Surface roughness tester*
- *Accessories: Tool pre setter, Touch probes, Tool Holders and Zero point clamping systems*
- *Latest types of cutting tools and work holding systems*
- *TPM trak system for OEE and productivity monitoring*
- *CAM Programming: Cadem and Mastercam CAD/CAM software*
- *3D Printer for polymer parts*
- *Classroom with computer work stations in-network with the CNC machines through LAN for seamless data transfer, productivity monitoring and control*
- *Automation Lab with Hydraulics & Pneumatic systems, PLC Programming, Sensors, Servo systems, HMI and Networking*
- *CAD/CAM/CAE: Autodesk, Solidworks, CREO and ANSYS Softwares*

PARTICIPATION FEE

Rs. 54000/-	Rs. 36000/-	USD 2000/-
+18% GST	+18% GST	Overseas Participants
IMTMA Members/ Micro Companies/ IMTMA Non Members/ Others	Individuals	

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

Participant Profile

- ***Engineers/supervisors from manufacturing industries, responsible for productivity and quality improvement.***
- *New recruits/trainees in manufacturing industries.*
- ***Fresh Mechanical Engineers after completion of their Degree / Diploma in Mechanical or allied disciplines**.*
- *Pre-final year engineering students from Mechanical or allied disciplines.*
- ***Design engineers who are willing to have a strong foundation through hands-on training in the latest manufacturing practices.***

For Registration Contact

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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.

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