

YOUTH EMPOWERMENT INITIATIVE

A HANDS-ON TRAINING IN INDUSTRIAL AND MACHINE AUTOMATION FOR SMART MANUFACTURING

14 December 2026 to 10 February 2027
IMTMA Technology Centre, Bengaluru

Engineering graduate or Diploma Engineers From
Mechanical, Electrical and allied disciplines, passed out
from Year 2024, 2025 and 2026 Pan India.

Sponsored by



Course
Fee:
NIL



Manufacturing Technology
Training

An IMTMA initiative

Organised by



Indian Machine Tool
Manufacturers' Association

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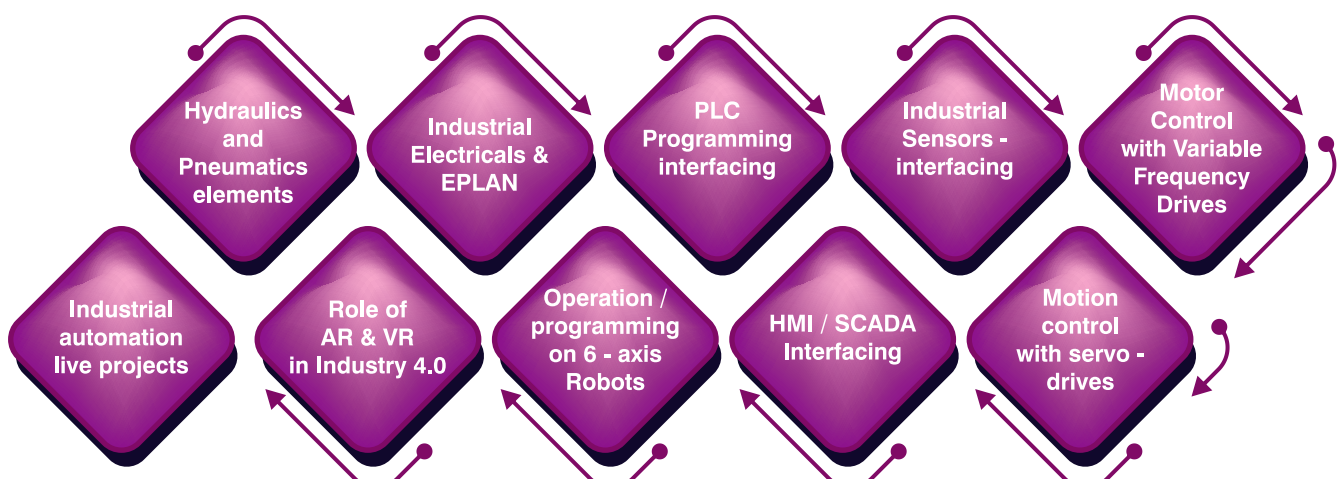
Need for Hands-on Training in Industrial and Machine Automation for Smart Manufacturing

Industrial and Machine Automation has become integral part of all modern manufacturing processes and is constantly upgraded keeping up with latest technological developments to ensure increased productivity with improved product quality. Increased use of automation also means requirement of engineers with adequate training in all aspects of industrial automation.

An exclusive Hands-on training program namely **“Industrial and Machine Automation for Smart Manufacturing”** is organised for Engineers in Industries engaged in automation and engineering graduates who want to make their career in ever-evolving Industrial Automation field.

Course Contents

- Introduction to manufacturing industry and opportunities in Automation
- Electrical and Electronic Engineering Fundamentals
- E-panel wiring
- EPLAN
- PLCs & HMI
- SCADA
- Behavioural Skills
- Industrial Sensors
- VFD
- Industrial Motors
- Hydraulics & Pneumatics
- CNC Systems
- Fluid Circuit Simulation Using Software
- Robotics & Cobotics
- Industry 4.0 & 5.0
- AI & AR/VR
- Career Building, Interpersonal Skills, Interviewing Skills
- Industrial Safety
- ISO9001 Awareness
- Live Projects
- Industrial Visit
- Assessment and Evaluation
- Feedback and Certification





Training Methodology

- Class room sessions from industry experts
- Hands-on practice in design, Simulation and usage of Hydraulic & pneumatic elements
- Programming Practice on PLC - Ladder logic / Relay logic / I/O interface
- Industrial automation - sample projects / Design - Program – Interface
- Introduction to AR & VR
- Industry visits
- Assessment and certification
- Placement support for eligible candidates

Unique Programme Features

- Experiential learning from Automation and Robotics experts
- Hands-on training on machines and equipment at IMTMA Technology Centre
- Developing work culture and skill competency matching industry standards
- Placement support



Facilities available for training

- PLC Programming & simulation training kits
- PLC software & Hardware
- HMI & Graphic Operation Terminal (GOT)
- Hydraulic elements & Hydraulic training kit
- Industrial Electricals
- Pneumatic elements & Pneumatic training kit
- Motor controlled Variable frequency drive training kit
- Motion control Servo motor/ servo drive training kit
- Industrial sensors training kit
- 6 axis Robots for welding and machine tending applications
- Modular Production Systems with Industry 4.0 features
- CNC Machines and other accessories
- CAD/CAM/CAE for Design through Manufacturing

Faculty

This program will be conducted by Industry experts from IMTMA who are having more than 30 years experience.

Evaluation and Certification criteria

- Periodical test and assignments
- Performance evaluation
- Record of attendance
- Presentation Skills and Team Work



Participants Profile

- Being an interdisciplinary subject, the course is applicable to engineering graduates from Mechanical, Electrical allied disciplines, passed out from Year 2024, 2025 and 2026 Pan India.
- New recruits, Engineer Trainees, Supervisors
- Upto 50% reversed seats for women engineers
- Limited seats...!

Participation Fee and caution deposit

- No participation fee for shortlisted candidates
- Fee will be fully sponsored by IMTMA member companies, including delegate kit, course material, lunch and tea / coffee, etc
- Refundable caution deposit of Rs.5000/ participant, shall be paid to IMTMA by all selected candidates before the commencement of the programme
- The caution deposit will be refunded to participants on successful completion of the programme
- If any participant discontinues, for any reason, the caution deposit will not be refunded

Important Information to participants

- Training programme is non-residential
- Participants will bear the expenses of travel and stay during the entire duration (2 months) of training at their own cost
- Maintain 100% attendance during the period of training
- Attend all the tests and assignments
- Adhere to the designated dress code and safety norms of IMTMA
- Maintain work discipline during the entire training
- Abide by all instructions of faculty and IMTMA
- Post training, open to work anywhere in India without geographical barrier
- Shall not misuse/ mishandle/damage the equipment, machineries, computers, CAD software during training

Post training Support

- After successful completion of training, each participant will be awarded with a certificate based on their performance
- IMTMA and it's member companies will provide assistance for placement in manufacturing industries



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