Manufacturing Technology Training
An IMTMA initiative

Hands-on Training in Robot Programming & Operation
Date : 22 to 24 July, 2026
Venue : The AKGEC Skill Foundation, Ghaziabad

INTRODUCTION

Robots have been proven to deliver a host of benefits in a wide variety of industrial applications including Material handling/Assembly, Arc / Spot welding, Painting, Deburring, Plasma cutting etc. Industries introducing robots to their production processes have typically seen a significant transformation in their productivity and efficiency, with higher levels of output and consistent product quality. Yet another advantage with Robots is the flexibility in automation as they can be reprogrammed, whenever new products are launched.

The market for industrial robots is rapidly growing in India, as industries are looking forward for more and more robotization. Though the robotic revolution in India is driven by the automotive industry, other applications like machine tending, foundry, medical components processing, etc., are also growing.

Keeping this in mind, IMTMA is organising a 3-day **"Hands-on training program in Industrial Robot Programming & Operation".**

FOCUS AREAS

- Types and Applications of Robots
- Robot Controller and Mechanical Unit
- General Safety Protocol in Robot Handling
- Manual Jogging using different modes
- Robot Mastering Techniques
- Tool and Base Calibration
- Program Creation & Execution using Motion Blocks
- Understanding and using of Advance Programming Concepts
- Understanding of Simulation Software for offline programming
- Live Demonstrations: Material Handling, Arc & Spot Welding, Robotic 3D Laser Cutting and Robotic Milling.

KEY TAKE AWAYS

After completing the training, participants will be able to:

- Understand the structure, types, and safety protocols of industrial robots
- Operate and jog robots using real-time control interfaces
- Perform accurate robot mastering and calibration using EMD and reference tools
- Develop and execute basic to advanced robot programs using RPL
- Create and simulate robotic applications in offline environments
- Implement practical robotic applications like material handling, spot welding, arc welding, and 3D laser cutting
- Troubleshoot robot programs, perform maintenance, and manage backups and error recovery

PARTICIPATION FEE

Rs. 6999/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ IMTMA Non Members/ Others

Rs. 3500/-
+18% GST
Student

USD 280/-
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 Engineers & senior technicians from manufacturing industries who would like to learn about Robot programming cum operation. Engineering students interested in getting Hands-on training in Robots can also enrol and get benefitted.

FACULTY

This programme will be conducted by, IMTMA Subject Matter Expert.

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.