Manufacturing Technology Training
An IMTMA initiative

Hands-on Training Program in Robot Programming & Operation
Date : 28 to 30 January, 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, Indian Machine Tool Manufacturers' Association is organising a 3-day "Hands-on training program in Industrial Robot Programming & Operation".

FOCUS AREAS

This program covers the important aspects of application of Industrial Robotics for the automation of the Industry. The major focus areas are

- 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/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 280/-
Overseas Participants

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

FACULTY

This Program will be conducted by Mr. Vikash Kumar, Mr. Gaurav Srivastava, Ms. Gaganpreet Kaur and Dr. Manoj Kumar Yadav

Mr. Vikash Kumar is an AGM & Robotic Trainer, AKGEC Skills Foundation (ASF)

Vikash Kumar is a versatile scholar and a trainer. He holds the Bachelor's Degree in Mechanical Engineering from Institute of Engineering & Technology (Govt. College, U.P.), Lucknow and Master's Degree in Production Engineering from IIT, Delhi. Mr. Kumar has a hardcore teaching, training & research experience of more than 16 years, working in the field of flexible manufacturing system, Industrial Robotics & Advance Welding Technology.

For the last 13 years, he has been actively involved in conducting Corporate Training and research development program / Workshops on Industrial Automation & Robotics field with lead automation companies.

Mr. Gaurav Srivastava is an Industrial Robotic Trainer, AKGEC Skills Foundation (ASF)

Gaurav Srivastava is a versatile scholar and a dynamic trainer. He holds a Bachelor's Degree in Electrical Engineering from B.S.A. College of Engineering & Technology, Mathura and Master's Degree in Power System (Electrical Engineering) from National Institute of Technology, Hamirpur (H.P.).

Mr. Srivastava has a hardcore teaching, training & research experience of more than 13 years, working in the field of power system, Industrial Robotics. For the last 10 years, he has been actively involved in conducting Corporate Training and research development program / Workshops on Industrial Robotics field with lead Robotics companies

Ms. Gaganpreet Kaur is an Industrial Robotic Trainer, AKGEC Skills Foundation (ASF)

Ms. Gaganpreet Kaur is a highly accomplished individual with an illustrious academic and professional background in the field of Mechanical Engineering. She holds a Bachelor's degree in Production Engineering and a Master's degree in Automation and Robotics from renowned institutions. Currently, Ms. Gaganpreet Kaur is diligently pursuing her Ph.D. at Delhi Technological University.

Over the course of her impressive 18-year career, Ms. Gaganpreet has amassed a wealth of experience and expertise in various aspects of her field. Her primary focus centers on Robotic Welding, Milling, and various other applications. Notably, she is a certified trainer for both basic and expert level training in her field, showcasing her dedication to imparting knowledge and skills to others.

Dr. Manoj Kumar Yadav is an Industrial Robotic Trainer, AKGEC Skills Foundation (ASF)

Dr. Manoj Kumar Yadav is a highly accomplished individual with a distinguished academic and professional background in the field of Mechanical Engineering. He holds a B Tech degree in Mechanical Engineering and M Tech from the prestigious MNIT Jaipur. Dr. Yadav further enhanced his expertise by earning a Ph.D. from Jamia Millia Islamia, cementing his reputation as a dedicated scholar. With an impressive career spanning 16 years.

Dr. Yadav has accumulated a wealth of experience and knowledge in various facets of his field. His specialization lies in the realm of Robotic Welding. Notably, Dr. Manoj Kumar Yadav also serves as the Secretary of the IIW-India Delhi Branch, showcasing his commitment to the advancement of welding technology and knowledge-sharing within the industry.

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.