Manufacturing Technology Training
An IMTMA initiative

Maintenance and Troubleshooting of Hydraulics and Pneumatics Systems
Date : 7 to 9 October, 2025
Venue : IMTMA Technology Centre, Bengaluru

INTRODUCTION

In depth understanding of Hydraulics & Pneumatics systems is mandatory for assembly and maintenance engineers. This will help minimize/eliminate the downtime of a machine or equipment related to Hydraulic and Pneumatic systems to ensure smooth functioning and uninterrupted production. This program will focus in-depth understanding of Elements of Hydraulics circuits, Preventive Maintenance Procedures, and Safe Trouble Shooting Practices.

Keeping this in view, IMTMA is organizing hands-on training on **Maintenance and Trouble Shooting of Hydraulic and Pneumatic Systems**.

FOCUS AREAS

- Function of hydraulic components - Pumps, DC Valves, Cylinders, Motors and Reservoirs
- Symbols and circuit diagrams
- Hydraulic circuits using elements - DC valves, Check valves, Pressure control, and Flow control valves
- Hydraulic technology in Machine Tools – case studies
- Energy-saving measures in Hydraulic power packs
- Maintenance and Troubleshooting of Hydraulic circuits; Safety procedures and practices; Case studies
- Hands-on exercises on Hydraulic trainer kit
- Hands-on Dismantling and reassembly of Hydraulic elements

KEY TAKE AWAYS

- Understand Hydraulic elements & Pneumatic elements
- Understand to read the hydraulic and pneumatic circuit
- Adopt preventive maintenance procedure for Hydraulic systems
- Troubleshoot Hydraulic circuits in systematic manner
- Analyze probable failures related to critical hydraulic elements
- Do assembly and disassembly of power pack

PARTICIPATION FEE

Rs. 13750/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 550/-
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 & members from Design, Production, Planning, Engineering and Maintenance functions of manufacturing industries. This programme will cover from basics of hydraulics & Pneumatic Circuits to their maintenance & troubleshooting with hands-on practice.

FACULTY

This program will be conducted by **Mr. Ganapathy Bhatta A S,**

Mr. Ganapathy Bhatta, is a Mechanical Engineer and an employability expert having 38 plus years of experience as an enabler and a passionate technical trainer in imparting and organizing technical training for newly recruited technical personnel and experienced Industrial employees and instrumental for many of them to become senior executives and entrepreneurs in India and abroad. Has worked in M/s. LMW, GKDITR in Coimbatore, NTTF, Bangalore, M/s. Maruti Suzuki, Gurgaon, M/s. Triveni Turbines Bangalore.

During his tenure, he has trained more than 10000 full-term technicians and Engineers and helped them to successfully establish their careers. Today, his trainees/students are working globally in multinational companies and many of them have become successful entrepreneurs and carrying out successful businesses in India.

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.