Manufacturing Technology Training
An IMTMA initiative

# Low Cost Automation
# Date : 4 to 5 August, 2025
# Venue : IMTMA Technology Centre, Pune

## INTRODUCTION

This course is designed to enrich your understanding of Low-Cost Automation. Covering everything from key elements of automation & applications and types to advanced methods and techniques, this workshop addresses all key aspects. Enhance your skills and stay ahead in the dynamic field of Industrial Automation.

In line with this, IMTMA is organizing a training 2-day program on the **Low-Cost Automation.**

## FOCUS AREAS

- Introduction to Low-Cost Automation – History, Types, Benefits of LCA, Industry Relevance
- Principles of LCA- Automation Opportunity identification, Process simplification, Cost Benefit Analysis, Strategies
- LCA Techniques – Pneumatics & Hydraulics, Sensors & actuators, PLCs, HMI, SCADA, Drives, VFD, RFID
- Control Networks and Embedded Control systems
- Data Acquisition & signal processing
- RAM modelling and Optimal Sensor Network Design
- Case Studies & Examples
- Implementation & Maintenance
- Best Practices & Future Trends – Linkage with Lean & IIoT

## KEY TAKE AWAYS

- Working Knowledge of LCA
- Ability to select and evaluate LCA projects
- Understanding of different types of LCA elements and their functions
- These takeaways will equip participants with the knowledge and skills to apply LCA principles and techniques in various industries

## PARTICIPATION FEE

**Rs. 10450/-**
+18% GST
**IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others**

**USD 415/-**
**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 program will benefit Gear design engineers; management involved with the design and manufacture of gearing type components; metallurgists and materials engineers; laboratory technicians; quality assurance technicians; furnace design engineers; and equipment suppliers & practicing engineers from Gear manufacturing industry.

## FACULTY

This program will be conducted by **Mr. B. Sengupta,** CEO of Phoenix Technoprojects

**Mr. Sengupta** is a distinguished Engineering and Management Consultant and Corporate Trainer with over 30 years of experience in the manufacturing sector, particularly serving MSMEs across India. He specializes in Business Strategy, Lean Manufacturing, TPM, Operational Excellence, and Project Management.

He has held senior roles at notable companies such as Tata Motors, Raymond Group, Hi-Tech Gears, Varroc Engineering. He holds a Mechanical Engineering degree from BITS and a PGDBM, along with certifications in Lean Six Sigma and Lean Manufacturing by the Ministry of MSME, GOI. He is also a seasoned trainer and a visiting faculty at esteemed institutions.

Mr. Sengupta has a wide experience in design and implementation of Low-Cost Automation in manufacturing and has successfully executed many such projects


## 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.