

INTRODUCTION

Over the years the term “**Low Cost Automation**” (**LCA**) has evolved and its relevance and context has changed a lot. Traditionally, any material handling automation that used simple frugal “homegrown” solutions that did not use power or costly capital investment were termed as LCA. The scope of automation today transcends well beyond just Material handling right up to Industry 4.0 implementation. The economics has also changed a lot as electronic devices and even Robots have become much cheaper in relative terms and there are much cheaper local system integration startups available now.

In order to put things into perspective in contemporary scenario IMTMA is organizing a 3 – 4 hour webinar on “**Low Cost Automation**” (**LCA**)

FOCUS AREAS

- Types and Levels of Automation – Material Handling Automation, Process Automation, Data Automation, Semi-Automation, Full Automation, As Programmed Automation, Adaptive Automation
- Applications of Automation – Machining, Assembly, Inspection, Tending, Material Logistics, Welding Automation and Traceability / Information
- What is “Low Cost” in Automation then and now?
- How is the Cost of Automation justified?
- Traditional LCA – Karakuri (Gravity Operated Mechanism)
- Examples of simple mechanisms
- Overview of Elements of Automation – Lift Assist, Hoist, Turn – Tilt Tables, Conveyors, Hydraulic – Pneumatic Circuits, Bar Code readers, RFID, PLC, VFD, Servo, Positioners
- Use of AGVs / AMRs with Automation
- Automation with Human Touch

KEY TAKE AWAYS

- ROI Computation for Automation Proposals
- Overview of various types of Automation
- Options for contemplating an Automation Project
- Scope of supportive Automation for manual activities
- Automation and Job Losses

FEE PER PARTICIPANT (PER LOGIN)

Rs. 4000/-

+18% GST

**IMTMA Members/ Micro Companies/ Individuals/
Educational Institutions / Students/ IMTMA Non
Members/ Others**

USD 160/-

Overseas Participants

Group Concession : 10% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company

FACULTY

This program will be conducted by **Mr. Avinash Khare.**

Mr. Avinash Khare, is presently working as an Advisor & Consultant Head for IMTMA Pune Technology Centre for last 5 years ; he has been designing, developing content and delivering wide range of Training Courses as a Faculty. He is Electrical Engineer by Qualification and he has worked for over 33 years at Tata Motors Pune in various capacities ranging from R&D in Industrial Electronics, Machine Maintenance, Technology Procurement, Head of Machine Shops, Tool Room Shop Head, Head of Die Design and Champion in Business Excellence. He has taught Instrumentation and Bio Medical Instrumentation at Pune University as part time faculty.

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