



## INTRODUCTION

Industry 4.0 or "Smart Manufacturing" is fast becoming an inevitable evolutionary step for "future compatibility" for any Manufacturing Facility in India and Abroad. Most of Indian Industry is presently struggling to figure out how to get started into this "Digitalization" drive economically, and how to retrofit it into existing machines. To illustrate, develop confidence and show the way forward, IMTMA has now an I4.0 retrofitted facility comprising of common manufacturing CNC Machine and Automation, where most aspects can be practically demonstrated. The concepts shown here could be readily scaled up by Industry.

To extend the benefits of experience and competency in Industry 4.0; Indian Machine Tool Manufacturers' Association (IMTMA) is organising a Training programme on "**Practical approach towards implementing Industry 4.0 in Manufacturing**"

## FOCUS AREAS

- Retrofitting of Sensors at existing Manufacturing Equipment
- Live Data Gathering and Communication
- Edge Computing and OPC-UA
- Augmented Reality
- Live Demo of I4.0 at small manufacturing facility
- Options and approaches to implement I4.0

## KEY TAKE AWAYS

**After undergoing the programme, the participants will be able to -**

- Plan for Digitalization of Manufacturing Equipment such as:
  - CNC Machines as well as legacy machines
  - Assembly
  - Inspection
  - Automation
- System Integration
- Manage Sensors, Gateways and CLOUD
- Configure Reports and Dashboards

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 1499/-**

+18% GST

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

**USD 60/-**

**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. Sudhanshu Kantoor, Mr. Rajesh Bhat & Mr. Shaurabh Kumar Singh**

**Mr. Avinash Khare** is presently working as a 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.

The program shall be co-delivered by **Mr Sudhanshu Kantoor**, General Manager, Product Management - Factory Automation at **Pepperl+Fuchs India**. He is passionately involved in the field of Industrial Automation for over two decades. An avid software programmer in control automation, he brings in hands-on and supervisory experience in projects involving PLCs, Drives, Remote I/O and SCADA based systems, machines/process plants throughout India and also overseas. Avid enthusiast on technology, specially in the domain of networking and data communication. Working across the control platforms and leading implementation of I4.0 solutions for P+F Factory Automation business in India.

The program shall be co-delivered by **Mr Rajesh Bhat**, currently working as Product Manager - Industry 4.0 with **Robert Bosch Engineering & Solutions Pvt Limited**. He is a Graduate in Electronics & Communication, with a professional experience of over 17+ years of experience in Industrial Automation and Manufacturing, Solution Architecting and Implementing Industry 4.0 solutions, Experience in Manufacturing Execution Systems (MES) & Industrial Automation products.

The program shall be co-delivered by **Mr. Shaurabh Kumar Singh** is an R&D Engineer presently working for The **Association for Manufacturing Technology** (AMT). His current focus of research includes Manufacturing Standards and Protocols like MTConnect, OPC UA and SparkPlug B. He graduated with an MS in Industrial and Systems Engineering from North Carolina State University, US in 2017 and holds a BTech in Mechanical Engineering from Vellore Institute of Technology, Vellore. He has over 4 years of experience in the field of smart manufacturing including model based standard development, information modeling, machine connectivity and automation, and decentralized digital manufacturing cell orchestration.

### For Registration Contact

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