

## INTRODUCTION

Industry 4.0 / Smart factory concept is the current technology in Industry to make digitalization of machines and monitoring their live status, to improve the productivity. Implementing I4.0 also makes the industries autonomous, enable massive growth by customization and brings flexibility in the process to achieve sustainable growth.

Many manufacturing Industries across the world are trying to figure out, how to start and where to start, the digitalization drive and how to retrofit this into existing legacy machines economically?. To illustrate, develop confidence and show the way forward, IMTMA retrofitted the I4.0 facilities in existing industrial machines/ Equipment to demonstrate practically. 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 4 days training programme on "**Championship Program on Industry 4.0 in Manufacturing**" from 25 to 28 April 2023.

## FOCUS AREAS

- Digital Production system
- Smart Asset Maintenance and Digital Energy & Utilities Management
- Smart Connected Products
- Data Driven Engineering
- Operation Technology Infrastructure
- Operation Technology (OT) and Information Technology (IT) Integration
- IT infrastructure and Platforms
- Industrial Data Science Essentials and Application
- Immersive Technologies (AR & VR)
- Autonomous Mobile Robots
- Management of Digital Manufacturing
- IIOT Operations, Maintenance and Change Management
- Data Governance and Cyber Physical Security
- Digitization Readiness Check
- OT-IT Machine Assessment
- Industrial Digital Competency Assessment
- Tools, case studies and live examples
- Part Traceability in the manufacturing industries
- Demonstration of smart factory software for Track & Trace, which helps to track raw material to final product, at every stage of its production process
- Demonstration of Bar-code technology is used for tracking the material movement in the manufacturing industries.
- Monitoring the live data through smart sensors from Machines and display it in visual form which will help to take the corrective actions timely
- Monitor the live data from the Inspection equipment (Digital Height Gauge and CMM)
- Measuring Machines connected through SPC software that acquire online measurements from in-process, or post-process digital gauges and Display SPC and SQC charts Live.
- Visit to **"IISc Smart Factory"** A Common Engineering Facility Centre (CEFC), Centre for Product Design and Manufacturing (CPDM), at Indian Institute of Science Bangalore.

## KEY TAKE AWAYS

**After undergoing the training, participants will be able to understand and decide the following:**

- Awareness and experiential learning of Industry 4.0 & Emerging technology
- Discover possible areas of digital and robotics implementation.
- Work hands-on to prepare roadmap for Industry4.0 transformation.
- Develop confidence to implement Industry4.0 principles in manufacturing operations.

## PARTICIPATION FEE

**Rs. 16000/-**  
+18% GST

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

**USD 640/-**  
**Overseas Participants**

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

## PARTICIPANT PROFILE

- Managers/ Senior Managers of Manufacturing industries
- Engineers who have the role of Enabling Industry4.0 in manufacturing industries.
- Production Engineers/ R&D Engineers/ Shopfloor Supervisors
- Professors/ HOD

## FACULTY

Industry 4.0 Domain experts from M/s Maxbyte Technologies Pvt Ltd., M/s AceMicromatic Manufacturing Intelligence Technologies Pvt. Ltd. and Indian Institute of Science.

**Mr. Surendran D** is a Chief Autonomous Officer at Maxbyte Technologies and an expert in PLM, Design Automation and Industrial IoT. Key focus areas include industry 4.0 maturity transformation, implementation methodologies, knowledge-based engineering, adaption strategies, risk management, success management and talent capability building.

**Mr. Gift Selvin T** is a Learning & Innovation Director at Maxbyte Technologies, Extensively experienced in managing projects, programs and deliveries in the domain of immersive technology, industrial digitization (IIoT) and Innovation. Helping manufacturers in speeding up the production process, with insights for predictability, increasing asset efficiency, service efficiency and continue to accelerate with XR technology, offers solutions and products to change the way people work and to implement, realize the outcomes and values of these innovative solutions.

**Mr. Jenox Rex Antony S** is a Sales Director at Maxbyte Technologies. Expert in Discrete and process automation, solution designing, business analysis, costing structure. He is the Sales Director at Maxbyte and helps customer by effectively designing Industry 4.0 solutions, providing systematic guidance, and developing a roadmap to create incremental business value across the customer journey in digital.

**Mr. Sathiyaraj S** is an IIoT Engineering Manager in Maxbyte. Expert in PTC Thingworx and IIoT. He is experienced in the area of IIoT design & development, control system development, engineering project management and Team Management.

### 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.