

## INTRODUCTION

The focus on modernizing manufacturing operations has accelerated with the availability of several technologies. Prominent among them are additive manufacturing, autonomous robots, augmented reality, big data analytics, cloud computing, industrial internet of things, solid-state sensors etc. This has enabled opportunities for automation, remote & self-monitoring, and the development of systems that sense, diagnose, and predict manufacturing issues.

This learning intervention will help companies to explore, identify and drive innovations in manufacturing by developing a cadre of Industry 4.0 Champions. These Champions would design, develop, and demonstrate an implementable solution to an opportunity identified by their company or the business / plant head.

To extend the benefits of experience and competency in Industry 4.0; Indian Machine Tool Manufacturers' Association (IMTMA) is organising a training programme on "**Championship Program on Industry 4.0 in Manufacturing**" at **Advanced Manufacturing Technology Development Centre (AMTDC)**, Ground Floor Block 'B', IIT Madras Research Park, Kanagam Road, Taramani, Chennai - 600 113.

## FOCUS AREAS

- OT Infrastructure and OT - IT Integration
- IT Infrastructure and Cloud Computing
- IIoT Platforms
- Data Driven Enterprise Architecture
- Industrial Data Science Essentials and Application
- Digital Twin
- Immersive Technologies / Extended Reality
- Autonomous Mobile Robots
- IIOT Operations, Maintenance and Change Management
- Data Governance and Cyber Physical Security
- Digital Job Card Management
- OEE Monitoring & Downtime Management
- OLE Monitoring
- Quality 4.0
- Product Traceability
- Smart Asset Maintenance
- Energy and Utility Monitoring, Analytics and Sustainability
- Digital Performance Management using Power BI
- Assessments & Industry 4.0 Transformation Readiness Report Preparation

## KEY TAKE AWAYS

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

- Awareness and experiential learning of Industry 4.0 use cases & technologies
- Live and interactive demonstrations with user flow, benefits & outcomes
- Digital Readiness Check
- Machine Assessment & Skill Assessment
- 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.

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 course is ideal for those who are responsible for the implementation of industry digitization and maintenance.

- Managers/ Senior Managers of Manufacturing industries
- Managers/ Senior Managers from Operations, Quality, Supply Chain, IT, etc.
- Engineers who have the role of Enabling Industry4.0 in manufacturing industries.
- Production Engineers/ R&D Engineers/ Shop-floor Supervisors
- Professors/ HOD

## FACULTY

**This program will be conducted by Mr. Dhiraj Ramakrishnan, Mr. Kannapiran Eswaran & Mr. Vikram Govardhanan.**

Mr. Dhiraj Ramakrishnan, Vice President of Products, Maxbyte Technologies Pvt Ltd. An expert in building scaled B2C, B2B products, and is leading efforts in building byteFactory, the industry 4.0 apps platform. With a rich experience in building products, solution design and customer focus, he is focussed on making Industry 4.0 apps for manufacturing industry across the globe.

Mr. Kannapiran Eswaran, Trainer for Learning Maxbyte Technologies. Expert in providing training on Discrete and process automation, industry 4.0 digitization applications and its associated solutions, Renewable energy systems, EV chargers, and sustainability. He also provides comprehensive strategy to enhance business value across the digital landscape.

Mr. Vikram Govardhanan, Principal Architect - Smart Manufacturing Maxbyte Technologies. A Passionate Digital Transformation Professional with over 15 years of Experience in Manufacturing Domain. Empowering Companies with Solutions through Customer-Focused Strategy at Maxbyte. He has worked at Hyundai/Kia Motor Group and is specialized in the field of Manufacturing IT (MES/Infra).

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