

**Engineering Insights on Electric Vehicles** 

Date: 30 January, 2024

Time: 0940 Hrs to 1300 Hrs (Online Mode)

### **INTRODUCTION**

The "Overdrive on Electric Vehicles" through policy push, concern for the environment, fancy, hype and inrush is leading to a situation where people directly start building opinions and discussing specs of EV and Hydrogen vehicles without really understanding the basics, technologies and real relative merits and limitations.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organising a 3 hour webinar on "Engineering Insights on Electric Vehicles" to prime the curious young minds, potential innovators and prepare working professionals for the onslaught of EV trend in the near future.

#### **FOCUS AREAS**

- The potential, need and hype of EVs
- · Applications of EV for Shop Floor vehicles, Commercial Vehicles, Passenger Vehicles / Cars, 2 wheelers and bikes
- Types of EVs & Hybrids
- Elements & Drive Train for EVs Motors, Drive, Transmission
- "Designed to be EV" vs "Adapted to be EV"
- Type of Batteries
- · Charging Schemes and infra structure
- Competing Technologies and Complimentary Trends of efficiency improvement
- Merit of Autonomous Driving

### **KEY TAKE AWAYS**

- Principle specifications
- Induction Motor vs Servo Motor as prime mover
- Controller Basics
- How range / charge is extended?
- Where Hybrids are better
- Manufacturing, Recycling and Risk with Lithium Battery
- Manufacturing challenges in Hydrogen Cell
- Need for 360 degree economy

# 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.

## **For Registration Contact**

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