Manufacturing Technology Training
An IMTMA initiative

Light-Weighting of Automobiles
Date : 12 to 13 March, 2026
Time : 1340 Hrs to 1700 Hrs (Online Mode)

INTRODUCTION

In order to comply with ever-tightening emission norms and to provide higher mileage, higher pickup and higher payload Light-Weighting of vehicles have become inevitable.

Light-weighting is done for: Body-In-White (BIW), substructure, engine & transmission elements, bought out aggregates right down to fasteners. Diverse Technologies and choice of materials ranging from sheet metal to cast and forged items are used in Light-Weighting.

In order to present a holistic overview of new technologies and materials which have become current and near-future industry trend. Keeping this in view Indian Machine Tool Manufacturers' Association (IMTMA) is organising a six-hour online programme on **Light-Weighting of Automobiles**.

FOCUS AREAS

- Use of AHSS
- Tailor Welded Blanks
- Use of Aluminium and Magnesium Forming
- Hot Forming of AHSS, Aluminium and Titanium
- Tube Hydroforming
- Use of Composites
- Cold Forging
- Rotary Swaging & Axial Forming

KEY TAKE AWAYS

- Light-weighting with better crashworthy structure
- Challenges and solutions of manufacturing with Higher Strength Material
- Hollow drive trains
- Weight reduction in fasteners
- Use of Additive Manufacturing for Light-Weighting Engine

FEE PER PARTICIPANT (PER LOGIN)

Rs. 2999/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 120/-
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 a Consultant Head for IMTMA Pune Technology Centre for the last 5 years. He has been designing, developing content, and delivering wide range of Training programs as a Faculty. He is an Electrical Engineer by Qualification and has worked for over 33 years at Tata Motors Pune in various capacities ranging from R&D, Industrial Electronics, Machine Maintenance, Technology Procurement, Head of Machine Shop, Tool Room Shop Head, Head of Die Design and as a Champion in Business Excellence. He has taught Instrumentation and Bio-Medical Instrumentation at Pune University as a part-time faculty.

For Registration Contact

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REGISTRATION : Prior registration with an online advance payment is must. Number of participants is limited and will be accepted on ‘First Come First Serve’ basis. A Certificate of participation will be issued to participants.