Manufacturing Technology Training
An IMTMA initiative

Light-Weighting of Automobiles
Date : 23 to 24 April, 2026
Venue : IMTMA Technology Centre, Pune

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 Training 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

PARTICIPATION FEE

Rs. 4999/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 200/-
Overseas Participants

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

FACULTY

This program will be conducted by **Mr. B. Sengupta**, CEO of Phoenix Technoprojects

Mr. Sengupta is a distinguished Engineering and Management Consultant and Corporate Trainer with over 30 years of experience in the manufacturing sector, particularly serving MSMEs across India. He specializes in Business Strategy, Lean Manufacturing, TPM, Operational Excellence, and Project Management.

He has held senior roles at notable companies such as Tata Motors, Raymond Group, Hi-Tech Gears, Varroc Engineering. He holds a Mechanical Engineering degree from BITS and a PGDBM, along with certifications in Lean Six Sigma and Lean Manufacturing by the Ministry of MSME, GOI. He is also a seasoned trainer and a visiting faculty at esteemed institutions.

Mr. Sengupta has a wide experience in design and implementation of Low-Cost Automation in manufacturing and has successfully executed many such projects

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.