

## INTRODUCTION

The multiple facets of modern sheet metal forming techniques are applied through a wide spectrum of industries, ranging from the automotive, machine manufacturing, electrical engineering and electronics. Compared to conventional manufacturing, advanced sheet metal forming methods offer several advantages, such as decrease in sheet part cost, tool cost and product weight, improvement in structural stability, increase of strength and stiffness of the formed parts, uniform thickness distribution, fewer secondary operations, etc.

The automotive industry is the main impetus worldwide for new developments as is seen in its efforts to optimize lightweight constructions coupled with high strength. Now a days, Simulation / CAE Tools are increasingly used to develop the product and process, replacing lengthy trial and error processes on real prototypes.

This programme will introduce and provide overview of host of advanced and future technologies that are available and are being developed in the area of sheet metal forming.

Keeping this in view, IMTMA is organising an online training on **Advanced Technologies in Sheet Metal Forming**.

## FOCUS AREAS

- Update on Material Technology
- Challenges of AHSS and Hybrids
- Hydroforming of Sheets and Tubes
- Hot Stamping
- Spinning, Flow Forming and Roll Forming

## KEY TAKE AWAYS

- Insight about newer possibilities of sheet metal forming
- Understanding about types of hydroforming and its applications
- Knowledge about role of hot forming in automotive applications

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 5500/-**

+18% GST

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

**USD 220/-**

**Overseas Participants**

**Group Concession : 10% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company**

## FACULTY

This programme will be conducted by **Prof. K.Narasimhan and Mr. Avinash Khare**.

**Professor Narasimhan** is spearheading Metallurgy Department at IIT Bombay. He is driving “Sheet Metal Forming Research Association” which is apex body in the field of Advanced Sheet Metal Forming related Research and Seminars. He has been a key resource person for IMTMA for its courses and International Seminars

**Mr. Avinash Khare** is presently working as a Consultant and 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.

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