

INTRODUCTION

The multiple facets of modern sheet metal forming techniques are applied throughout a wide spectrum of economies, ranging from the automotive industry and machine manufacturing to electrical engineering and electronics. Comparing to conventional manufacturing, advanced sheet metal forming methods offer several advantages, such as decrease in sheet part cost, tool cost and product weight, improvement of structural stability and increase of the strength and stiffness of the formed parts, more 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

- Sheet metal grades suitable for forming
- High strength steels and formability challenges
- Basics of Hot forming
- Hot forming – Tools and equipment
- Rotary Swaging & Axial Forming
- Use of Advanced Higher Strength Material for lightweighting
- Hot Forming
- Tube and Sheet Hydroforming
- Equipment and tools for Tube/sheet forming
- Applications of Tube/sheet hydroforming
- Incremental Forming - Roll Forming - Flow Forming

KEY TAKE AWAYS

- Advancements in new sheet metal materials
- New technology and trends in the Automotive industry
- Merits and Challenges
- Typical Application Areas and competence requirements
- Process and Equipment familiarity
- Possibilities of vehicle / aircraft light weighting

FEE PER PARTICIPANT (PER LOGIN)

**Rs. 9000/-**  
+18% GST  
**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 360/-**  
**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, Mr. Avinash Khare, Mr. Sachin Nirgudkar and Mr. Peter Karch.**

**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.

The program shall be co-delivered by **Mr. Sachin Nirgudkar**, an entrepreneur, manages a company Industrial Interface India 3i, which is into fine blanking and hot forming applications. His company represents well known brands such as Feintool and Benteler. He was formerly working as Managing Director with ABP Induction and with as Vice President with Schuler, Germany, responsible for both sales and service activities. He has also worked with Mahindra Intertrade limited in various capacities including as Head of Sharjah Operations.

The program shall be co-delivered by **Mr. Peter Karch**, who has more than 25 years of experience in production engineering and plant construction. He develops technical solutions for customers worldwide in the field of cold forming of metals. He is a Graduate Engineer and Technical Trainer at FELSS in Germany.

For Registration Contact

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