

## INTRODUCTION

The Automotive, Agricultural, Defence and Railway industry is undergoing continuous change due to increased customer demand as well as improvement in production norms. Gears and Gear drives are an important component of all kinds of vehicles, machine tools, aircrafts, household appliances as well as a broad variety of industrial equipment, which play key role in transmission of power. Gear manufacturing is a complex activity, involving multiple manufacturing processes. Hence a good understanding about the various gears manufacturing processes and controlling of the parameters is essential, in order to meet the growing demands for better productivity and quality of gears.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing an online programme on “**Gear Manufacturing - Hobbing and Shaping Processes**”. The topics will covered in depth with focus on actual case studies.

## FOCUS AREAS

- **Introduction to Gear Terminology**
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- **Gear Manufacturing Processes**
- **Gear Hobbing**
  - Different methods of hobbing
  - Process parameters
  - Work set up and Hob set up methods
  - Process optimization and productivity improvement
  - Cutting Tools required for hobbing
  - Industry Examples
- **Gear Shaping**
  - Working Principle
  - Different methods of shaping
  - Process parameters
  - Work set up and Cutter set up methods
  - Process optimization and productivity improvement
  - Cutting Tools for Shaping
  - Industry Examples

## KEY TAKE AWAYS

After undergoing the programme, the participants will be able to:

- 1. Gain an overview of gear hobbing and gear shaping manufacturing processes**
- 2. Understand process parameters & optimize gear manufacturing processes for hobbing and shaping operations.**

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 4500/-**  
+18% GST

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

**USD 135/-**  
**Overseas Participants**

**Group Concession : 20% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company**

## FACULTY

This programme will be conducted by **Mr. Vishwajit Kothari**.

Mr. Kothari is a Mechanical Engineer by profession, has more than 25 Years of experience in the machine tool industry and in gear manufacturing. He has worked with organisations like Premier Ltd., Pune, a pioneer and a renowned machine tool company in India since 1944. He is an accomplished professional having wide exposure in Application Engineering of Machine Tools , Gear Cutting Machines, Gear manufacturing, Machining Centers and Vertical Turn-mill Centers. He has experience in Techno-commercial Sales and Marketing, New Part Development, Part Programming, Machine Tryouts, Design & Development of Tooling & Work Holding Fixtures on various machines.

### For Registration Contact

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