Manufacturing Technology Training
An IMTMA initiative

Gear Metrology & Measurement Methods
Date : 3 to 4 December, 2025
Venue : IMTMA Technology Centre, Pune

INTRODUCTION

Gears and Gear drives are one of the key components of all kinds of vehicles, machine tools, aircrafts, household appliances as well as a broad variety of industrial equipments. Today the designers are facing challenges of demands about increasing lifetime, power transmission and noise emission, whereas the size and weight of gear drives is constantly reduced. The accuracy of gears is crucial for achieving the above functional demands.

Proper understanding of gear metrology and Measurement of gears is important for ensuing required accuracy and quality, Lower overall cost of manufacture by controlling rejects and scrap, Control machines and machining practices and Determine hear treat distortions to make necessary corrections.

FOCUS AREAS

- Basic concepts for gear measurement
  - Definitions of terms
  - Size measurement & form measurement
  - Single and Double flank composite inspection
- Run out characteristics
- Gear Measuring Machines & Instruments
- Gear Testing Machine Inspection Report and Interpreting gear graph
- Gear quality classification – DIN, JIS, ISO and AGMA standards
- Advancements in Gear Metrology
- Demo of Gear Measurement in Gear testing machine *

KEY TAKE AWAYS

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

- Understand the various gear inspection parameters and their importance.
- Learn about tools and instruments for gear measurement
- Interpret measurement graphs / reports and take corrective actions.
- Know about latest advancements in the field of Gear metrology

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

PARTICIPANT PROFILE

This programme is targeted towards Managers, Engineers and Middle management personnel involved in the functions of Production, Process Planning, Design, R & D, Application Engg., Quality assurance and other related areas from Automobile & auto ancillaries, Aerospace, Machine tool, Defence & Railway units, General Engg. and other manufacturing industries.

FACULTY

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

Mr. Vishwajit 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.

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.