Manufacturing Technology Training
An IMTMA initiative

Geometric Dimensioning and Tolerancing (GD&T) in Design through Manufacturing
Date : 17 to 18 August, 2026
Venue : IMTMA Technology Centre, Hosur Industries Association, Hosur

INTRODUCTION

Geometric Dimensioning and Tolerancing (GD&T) system eliminates ambiguities in engineering drawings and brings out the designer's intent very clearly. It ensures seamless communication between design, engineering, manufacturing and quality teams across the entire organization enabling them to work in a concurrent engineering environment. Application of GD&T system helps to reduce the manufacturing and inspection costs drastically.

This programme will focus on understanding the system of GD & T and the methods of applying it in real time designs.

Note: "Dear Participant, kindly note that, as the program will be scheduled at Hosur Industries Association, Hosur, the tax invoice will be issued under **IMTMA Tamil Nadu GST (GSTIN: 33AAACI1369M3ZG).** Kindly raise the Purchase Order accordingly. No changes will be permitted after the invoice is generated."

"For any clarifications, please contact the program coordinator."

FOCUS AREAS

- Tolerance, types of tolerances, why tolerance is required, and how tolerance is decided
- History, Introduction and understanding the need for GD & T
- Fundamental rules of GD&T per ASME. Coordinate VS geometric tolerancing
- Definitions of Terms and Symbols, FOS,FCF,DRF, Rule#1 or Taylor principle
- Definition of datums' and DOF restrained by primary, secondary and tertiary datums
- Selection of datums based on design / manufacturing / Inspection requirements
- Wooden/plastic prototypes: Part/assy prototypes used for effective training
- Form and orientation tolerances and applications
- Location, runout and profile tolerances and applications
- Tolerance concepts, MMC / LMC / RFS and their applications
- Calculation of bonus tolerance per MMC / LMC
- Inspection methods and Animations for form tolerances and importantconcepts

KEY TAKE AWAYS

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

- Understand the concepts of GD&T features and correctly interpret GD&T symbols in Engineering Drawings
- Learn about using tolerances at RFS, MMC and LMC conditions and Calculate Bonus tolerance.
- Gain a practical insight into inspection of GD&T features using conventional methods, Co-ordinate MeasuringMachine and functional gauges.
- Implement GD&T controls for a new project with proper selection of datum features.

PARTICIPATION FEE

Rs. 4999/-	Rs. 2500/-	Rs. 999/-	USD 200/-
+18% GST	+18% GST	+18% GST	
IMTMA Members/ Micro Companies/ Individuals/ IMTMA Non Members/ Others	**Professors**	**Student**	**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 will be a Mid Level one and participants are expected to have knowledge of Engineering Drawing as a pre requisite.

This programme will benefit Managers, Engineers and Supervisory Personnel involved in the functions of Product Design, Process Planning, Production, and Quality Assurance from Machine Tool, Automobile & auto ancillaries, Tool Rooms, Consumer Durables, Aerospace, Defence & Railway establishments, General Engineering and other Capital goods manufacturing industries. Participants are encouraged to bring their drawings for discussion and problem solving

FACULTY

This programme will be conducted by, IMTMA Subject Matter Expert.

He is having over 24 years of experience in the industry, in the field of manufacturing of precision components for Nuclear, Aerospace & Automation industry. He has acquired expertise in the application and use of GD&T principles in precision manufacturing of components as well as experience in conducting training programs. He has imparted training in CNC, CAD/CAM, CMM & GD&T for more than 1500 engineers. Has conducted more than 30 batch of Finishing school. Trained industry professionals from TVS, Ceratizit India, Ashok Leyland, Kennametal etc. Prior to working at IMTMA, he has worked at Avasarala Technologies Limited, as Assistant Manager, in the field of machining the precision components using CNC machines. Components manufactured for prestigious projects like Centre for Advanced Technology (BIGBANG test), ITER which is expected to be operational in the year 2030 at France. He was deputed to M/s Kimberly Clark Corporation's KIMTECH plant at Neenah, Wisconsin state, United States of America for one year to understand their best manufacturing practices. At IMTMA, as Assistant Director, his role is to impart hands-on training for manufacturing professionals.

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.