

INTRODUCTION

GD&T (Geometric Dimensioning &Tolerancing) or GPS (Geometrical Product Specification) is a common terminology to describe the design intent of parts starting from design upto manufacturing and beyond. GPS comprises a well-defined symbolic language that can help optimally control and communicate variations in manufacturing, allowable variations within the product assembly and standardizes how the variation is measured. Following GPS carefully is crucial to ensure all the parts / components in an assembly work together guaranteeing optimal functionality.

Keeping this in view, IMTMA is organizing a training programme on "**Geometric Dimensioning & Tolerancing - ISO standard**".

FOCUS AREAS

- Introduction to GPS philosophy
- GPS terms and definitions , Principles, Symbols and Rules
- Basics of Geometrical Tolerancing, tolerance indicator
- Form Tolerances- Specification, Application, Inspection
- Datums - Degrees of Freedom, Datum Reference Frame, Datum targets, Maximum Material Requirement (MMR), Least Material Requirement (LMR)
- Orientation Tolerances-Specification, Application, Inspection
- Position, Concentricity, Symmetry, Runout- Radial and Total- Specification, Application and Inspection
- Line Profile, Surface Profile--Specification, Application and Inspection

KEY TAKE AWAYS

After undergoing the GD&T workshop, the participants would be able to:

- Understand the concepts of GPS features and correctly interpret GPS symbols in Engineering Drawings
- Learn about using Geometric tolerances at MMR and LMR conditions and Calculate Bonus tolerance
- Learn Interpretation of GPS Parameters
- Learn GPS through Exercises
- Gain insight into the inspection of GPS features using conventional methods

FEE PER PARTICIPANT (PER LOGIN)

Rs. 6000/-

+18% GST

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

USD 240/-

Overseas Participants

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

PARTICIPANT PROFILE

Programme will be beneficial for Managers and Engineers from Design, Production, R&D and NPD divisions. Programme is relevant to industry viz., Any Process Industry, Auto OEMs, Auto ancillaries, Pump Manufacturers, Aerospace ancillaries, Defence & Railway Establishment, General Engineering and Engineering Service providers. Faculties from educational institutes can also participate in the programme.

FACULTY

This programme will be conducted by **Mr. Ravi Shankar Nadig**.

Mr. Nadig is a Manufacturing and Dimensional Management Professional with 27 years of experience in Machine tool, Automotive and Aerospace industries, He has worked as a Scientist in Central Manufacturing Technology Institute (CMTI), Bangalore (9 years) and as a Consultant in Tata Consultancy Services (TCS) for 15 years His core competency is in Design and Manufacture of precision machine elements for Defence and Space applications, Manufacturing Engineering support for Fabrication of sheet metal parts of Aero Engine assemblies, Dimensional Management -Tolerance Stack Analysis of Automotive and Aero engines, GD&T practice and training, and Rapid Prototyping. He is a Senior GD&T professional certified by ASME (Y14.5-2009).

For Registration Contact

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