Manufacturing Technology Training
An IMTMA initiative

Advanced Concepts of GD&T
Date : 21 to 23 November, 2022
Time : 1340 Hrs to 1700 Hrs (Online Mode)

INTRODUCTION

In today's scenario, Design, Manufacturing and Inspection personnel working on engineering parts and assemblies are required to be familiar with the basics of GD&T. In addition, there is a need for engineers to have knowledge of advanced concepts provided in ASME standards which results in realizing the benefits of GD&T - interchangeability, reduction of manufacturing and Inspection costs, elimination of rework etc.

Keeping this in view, IMTMA is organizing an online training on '***Advanced Concepts of GD&T***'

FOCUS AREAS

- Datums, Degrees of Freedom, Datum callouts at RMB and MMB, Common Datum features, Movable Datum targets
- MMC, LMC, RFS applications
- Virtual condition, Resultant condition, Bonus and Datum shift
- Functional gauge design
- Fixed and Floating fastener conditions
- Zero positional Tolerancing, Separate and simultaneous requirements, Projected Tolerance Zone
- Composite Position and Profile Tolerancing
- Inspection methods of geometric controls
- Coaxiality options
- Discussion of datum strategy and GD&T controls for sample assemblies

KEY TAKE AWAYS

After attending this programme, the participants will be able to:

- Select optimal datums and material modifiers while creating design drawings
- Tolerance Analysis, correct interpretation of drawings
- Understand the GD&T hierarchy and optimise tolerances to gain manufacturing and inspection cost benefits

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

PARTICIPANT PROFILE

This programme is intended for middle/senior level personnel in Design, Process Planning, Production and Quality Assurance working in Machine Tool, Automotive, Aerospace, Life sciences, Heavy Engineering and other engineering sectors. Basic Knowledge of Engineering Drawing, Limits/Fits/Tolerances and GD&T principles will be a prerequisite for this programme.

FACULTY

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

Ravi Shankar 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 at 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 the Design and Manufacture of precision machine elements for Defence and Space applications, Manufacturing Engineering support for the 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). He holds a Bachelor's Degree in Mechanical Engineering.

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REGISTRATION : Prior registration with an online advance payment is must. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.