



## INTRODUCTION

Manufacturing drawing is an official document in manufacturing of any part or product as it communicates complete manufacturing information through graphical symbols from a design engineer. It is very important for any engineer to interpret in line with the designer's intent even without his presence anywhere across the globe. Drawing communicates all information intended by the designer to facilitate manufacturing like part geometry, size, dimensional and geometrical tolerances, surface finish, material, heat treatment and surface treatment.

Drawing errors (macro or minor) causes a huge loss of time and money to a company as the errors could be known only after the manufacturing. Despite any amount of perfect and sophisticated design is made, if manufacturing drawing is not compliant to global standards and made with insufficient information, the product either will fail or become expensive. Hence error free manufacturing CAD drawing is very important for achieving first time right product in any industry. Optimized orthographic views, dimensioning methodology with right tolerances, right material and heat treatment minimises or even eliminates the rejections and reduce cost.

Keeping this in mind, IMTMA is offering a five day intensive online training program on First Time Right Product Manufacturing through Error Free CAD Drawings.

## FOCUS AREAS

- Over view of SOLIDWORKS
  - 3D Part Modelling, 3D Assembly Modelling
  - 2D Drawings
- Understanding Drafting standards par global
- Importance of Limits, Fits and Tolerances
- Applying GD&T controls
- Making of complex part drawings
- Checking process of drawings for correctness
- Interpretation of the drawings on what, how and why?
- Drawing check list
- **Live demo** of making drawing using CAD through a systematic approach

## KEY TAKE AWAYS

- Knowledge of 3D CAD
- Systematic way of making of drawings
- Know how on tolerances
- Basics of GD&T for designers
- Knowledge of graphical language and its interpretation
- Reading of drawings from manufacturing point of view

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 9000/-**

+18% GST

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

**USD 270/-**

**Overseas Participants**

## FACULTY

This programme will be conducted by **Mr. Vinay, Mr. Rajashekara HV and Mr. B Patil.**

**Mr. Vinay**, an engineering professional with over 15 years of experience, works as Manager - Technical at Conceptia Software Technologies, Bangalore.

**Mr. Rajashekara HV** is an Advisor to IMTMA. He has 28 years' experience on Design and Development of Metal cutting machines from various industries like M/s HMT Machine Tools, M/s Johnson Electric International Limited, HongKong and 7 years as Senior Director, IMTMA Design Institute. He has overall experience of 35 Years from both shop floor and training.

**Mr. B L Patil**, Sr. Executive Officer, IMTMA. Design Institute @ IMTMA. He has over 27 industrial work experience in the field of Fixture design, SPM design (Metal cutting), Process planning for machined components

### For Registration Contact

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