



IIGDT Training

“Introduction to Mechanical Drawings & GD&T”

Objective:

To understand 2D & 3D graphical representation of a mechanical drawing or mechanical sketches which includes multiple views, symbols and other drawing details

Course Length:

1 day (8-hours)

Course Content:

Background to Engineering Drawing Development

Overview of Related Engineering Standards

Review of Applicable Terms and Definitions

Evaluation of Engineering Drawing Components

- Line Types
- Dimensions (baseline, chainline, coordinate, basic and reference)
- Tolerances (linear, angular, bilateral, unilateral)
- Symbols
- Border
- Title Block
- Revision Block
- Notes (general & specific)

Review of Basic Drafting Conventions

- Third Angle Projection –vs- First Angle Projection
- Isometric Views
- Orthographic Views
- Section Views
- Detail Views

Evaluation of Generic Sample Part

Multiple Exercises to Reinforce Views, Projections and Drafting Practices

Introduction to GD&T

- Overview of 14 symbols
- Introduction to datums
- Transformation of Linear Tolerancing to Position & Profile

Targeted Audience:

Any individual, including engineering and non-engineering managers who participate in design reviews or technical meetings within the company or with mechanical component and assembly suppliers. Any individual who needs to understand 2D & 3D graphical representation of engineering drawings and sketches. Non mechanical engineers (electrical, chemical, industrial, regulatory, etc.), machine/equipment operators and technicians, assembly personnel, administrative assistants to technical groups, technical sales and purchasing representatives who deal with mechanical components and assemblies.

Prerequisites:

None