



Geometric Dimensioning and Tolerancing

(16 hours)

Course description

Geometric Dimensioning and Tolerancing (GD&T)

GD&T is solid course that will provide participants with the tolerancing tools and techniques to:

- Ensure interchangeability of mating parts
- Improve quality and productivity
- Bid new contracts with confidence
- Interpret and apply ASME Y14.5M-1994 & ASME Y14.5-2009 standards

Suggested participants

Mechanical Engineers

Design Engineers

Quality Engineers

Manufacturing Engineers

Quality Inspectors

Machinists

Anyone who may be required to produce or interpret engineering drawings.

Course Outline

- I. Introduction
- II. Symbols
- III. Terms
- IV. General Rules
- V. Datums
- VI. Form Controls
 1. Flatness
- VII. Orientation
 1. Parallelism
 2. Perpendicularity
 3. Angularity
- VIII. General
 1. Maximum Material Condition
 2. "0" Positional Tolerancing
- IX. Position, Location
 1. Fasteners
 2. Projected Tolerance Zones
 3. Multiple Patterns of Features
 4. Composite Tolerancing
 5. Elongated Holes
- X. Position, Coaxiality Controls
 1. Comparison of Coaxiality Controls
 2. Specifying Coaxiality
 3. Composite Coaxiality
 4. Tolerancing a Plug and Socket

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