GD&T Training - Fundamentals

This course is an introduction to the Y14.5M-1994 and Y14.5-2009 standards, focusing on the what, when, why, and the how of GD&T. The main goal of the GD&T materials is to bring all participants to a common, basic and operational level of understanding. GD&T Training - Fundamentals is a thorough introduction to those with a little to a moderate level of experience with GD&T. Those interested in GD&T certification should also consider completing GD&T – Advanced Concepts.

Who should attend: This program is designed for anyone who designs, drafts, engineers, purchases, manufactures, estimates, or inspects parts and assemblies. Particular emphasis is placed on those who design and manufacture, and those responsible for quality.

Prerequisite: A working understanding of technical drawings (perspectives, sections, details, etc.). Blue Print Reading for Industry is suggested.

BENEFITS
Your drawings have GD&T symbols on them (or they should)! If you have been attempting to work with GD&T, and you lack the confidence to specify, or are having trouble interpreting the specifications, this GD&T training is for you. Using GD&T improperly can be worse than not using it at all.

AGENDA

- Objectives and basic overview
- History of Geometric Dimensioning and Tolerancing
- Comparison of the "traditional" method - Coordinate Dimensioning - to the Geometric Dimensioning approach
- Demonstration of GD&T's Strengths and Advantages:
  - As a Design Tool
  - As a Manufacturing Aid
  - As an overall Communications Facilitator
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- General Rules of Dimensioning and Drafting per the Standard:
  - Tolerance Zones
  - Definition
  - Comparison to Existing Systems
- GD&T Symbology:
  - Definitions of all 14 geometric controls
  - Modifiers and other symbols
- "Bonus" Tolerances
  - Definition
  - How to take advantage of them
  - Datum shift
- Datum Reference Frames:
  - Definition
  - Proper Construction and Selection

Hours: 16hrs    CEUs: 1.6
Location: Central Campus
Days: Wed & Thurs
Times: 8a.m. – 5p.m.
Date: TBD
Cost: $725 (Material Incl)

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