

GD&T for MANUFACTURING

1 or 2-Day Seminar (~8 hours of instruction; 0.8 CEU's)

May be presented in two 4-hour sessions over two days. Two concurrent groups can attend mornings for two days or afternoons for two days; alternatively, the material can be covered in one 8-hour day

Course Description

This course is for your manufacturing personnel who are attempting to and read and *interpret* the Geometric Dimensioning and Tolerancing (GD&T) per the ASME Y14.5 standard that your designers have put on the prints, but who don't have the need to *apply* GD&T to prints.

Objectives

1. Understand the difference between a Product (finished part) drawing and a Process drawing
2. Explore the 3 Perspectives of Users of Drawings (Design, Manufacturing and Inspection)
3. Learn how to effectively read a drawing
4. Learn how to read GD&T callouts
5. Learn how to make and measure parts specified with GD&T callouts

Benefits

Your engineers have GD&T on your drawings, but your manufacturing staff can't interpret it! If you have been attempting to work with GD&T, and you lack the confidence to interpret the specifications, this course is for you. Using GD&T improperly can be worse than not using it at all! This program is an introduction to the Y14.5 standard. The main goal is to bring all participants to a basic and operational level of understanding of GD&T.

Program Outline

This program covers some basic print reading and the definitions of the GD&T symbols. The subject matter covered is (as a minimum):

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- Reading a drawing, both process and product drawing, and how to determine the difference
- Types of features of your parts
- GD&T symbols and definitions of controls
- Tolerance Zones – definition, concepts, comparison to existing systems.
- Datum Reference Frames – definition and proper construction and selection
- Reading a Feature Control Frame

Who Should Attend

This program is designed for manufacturing personnel, but not limited to them. This is a general overview for those who need to read GD&T callouts on prints. Those who attend will leave with a foundational knowledge of GD&T needed to interpret drawings. This is not a

This training is carried out using training materials obtained under a license agreement from Applied Geometrics Inc - <http://www.GDandT.com>

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comprehensive course. Additional training is recommended for those who need a more in-depth understanding of how to *apply* GD&T.

Prerequisites: Basic print reading skills are desired. Your drawings must correctly meet the ASME Y14.5 standard.