

GD&T Overview Workshop

(Based on ASME Y14.5M-1994)

Course Developer: Alex Krulikowski, President of Effective Training Inc. (ETI)



Learn geometric dimensioning and tolerancing from the experts. One of ETI's qualified instructors will come to your site to conduct a hands-on workshop on the advanced concepts of GD&T. We provide training at locations around the world, and all of our workshops can be customized to include your drawings and parts.

ETI's training and materials were developed by Alex Krulikowski, the noted GD&T educator, author, and consultant. He has a degree in industrial vocational education and more than 30 years of industrial experience putting GD&T to practical use on the shop floor. Alex is a member of the ASME Y14.5 Committee on Dimensioning and Tolerancing and served as chairman of the Y14.41 Committee on Solid Model Dimensioning for six years, so he's an expert on how to teach GD&T's application as prescribed by the standards. He has helped more than 60,000 students learn GD&T through his textbooks, self-study courses, computer-based training software, and online learning center.

Learning to interpret and apply GD&T properly will help you and your company:

- Save money at the design stage
- Enable global sourcing
- Reduce drawing errors
- Increase productivity
- Increase part tolerances
- Assure that mating parts will assemble
- Eliminate scrap
- Improve inspection accuracy

About the Course

Our one-day GD&T overview is an accelerated course that provides a short introduction to the GD&T fundamentals. The 8-hour course is geared to employees getting their first exposure to geometric dimensioning & tolerancing. It's also perfect as a refresher course.

Who Should Attend

This course introduces the topic of GD&T. It is designed mainly for people who don't use GD&T, but need to understand some GD&T basics. The course is perfect for purchasing agents, managers, supervisors, and manufacturing personnel.

Skill Level Needed

Student should have completed ETI's Engineering Drawing Requirements course.

Workshop Highlights

The class begins by explaining why GD&T is superior to coordinate tolerancing and includes an introduction to the terms, symbols, rules, and geometric controls used in GD&T. This is an introductory course, not an in-depth coverage of GD&T. The course covers the basic symbols, modifiers, and rules of GD&T. It introduces a difficult topic in an easily understandable manner.

Each workshop participant receives:

- A copy of the *GD&T Overview Exercise Workbook*, by Alex Krulikowski
- A *GD&T Ultimate Pocket Guide*
- Class handouts
- An official certificate of completion



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Quantity discounts available. Call 1-800-886-0909 to enroll today.

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Course Topics

- Coordinate tolerancing
- Geometric tolerancing
- Benefits of GD&T
- ASME Y14.5M-1994
- Eight common terms
- GD&T symbols
- Modifiers
- Rule #1
- Rule #2
- Basic dimensions
- Virtual condition
- Inner boundary
- Outer boundary
- Worst-case boundary
- Bonus
- Flatness
- Straightness
- Circularity
- Cylindricity
- Planar datums
- Size datums
- Datum targets
- Perpendicularity
- Angularity
- Parallelism
- Position
- Circular runout
- Total runout
- Profile of a surface

All of our workshops can be customized to include your drawings and parts.

Receive a complete GD&T education.

We have a series of workshops that add up to a total GD&T education:

- Engineering Drawing Requirements
- GD&T Fundamentals
- GD&T Advanced Concepts
- Tolerance Stacks
- Statistical Tolerance Stacks
- GD&T One-Day Overview

Provide your management with a half-day overview of GD&T.

ETI also provides a half-day executive overview of geometric dimensioning and tolerancing.

Understand the difference between the ASME and ISO standards.

If you do business internationally, we can train your employees in the differences between the ASME and ISO standards.

Understand the fundamental definitions, concepts, and methods from the new ASME Y14.41-2003 Standard.

The Y14.41 Standard establishes requirements for preparing, organizing and interpreting 3-D digital product images. ETI's Solid Model Tolerancing course explains the ASME Y14.41 Standard and how to apply it in your organization.

Students who attend our workshops walk away with more than knowledge. They gain on-the-job skills because our materials are performance-based, and each workshop approaches the subject from a design perspective.

For more onsite workshop information—or to request a custom quote package—contact a GD&T account executive at 1-800-886-0909, or email sales@etinews.com.

Need to train a large group?

ETI provides training onsite, online and through the *GD&T Trainer Professional Edition* computer-based training software. Call to learn more about the training option that's right for your company.



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