

# GD&T Applications Workshop Using Company Drawings

(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 applications workshop is an interactive workshop that focuses on the interpretation of GD&T applications on your company drawings. The workshop involves a few short lectures, numerous class discussions, guided practice, and student questions about the application of GD&T on drawings. There are two versions of the applications workshop: one for drawing users and one for drawing creators.

## Who Should Attend

The GD&T Applications Workshop is intended for anyone who interprets your engineering drawings: engineers, quality personnel, supplier quality engineers.

## Skill Level Needed

Minimum: Student should have completed ETI's Fundamentals of GD&T course or achieved a minimum passing score of 79% on our GD&T skills survey. Preferred: Completion of the Advanced Concepts of GD&T course.

## Workshop Highlights

The goal of this course is to teach each student to:

- Apply GD&T fundamentals course concepts to company drawings
- Interpret GD&T applications on company drawings
- Recognize poor GD&T applications

## Each workshop participant receives:

- Workshop drawing package
- Workshop notes
- A certificate of completion



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

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## Workshop Format

Lectures set the stage for class discussions and activities about drawing quality and GD&T applications. The discussions include understanding the drawing requirements and the general approach for inspection. The instructor will discuss the GD&T applications on your drawings, provide suggestions on how vague specifications could be clarified, and ask thought-provoking questions that will engage the participants as they analyze the drawing requirements.

The workshop is geared to a maximum of 20 students. In order to maximize the class benefits, some preparation is required. A company employee should be assigned to coordinate pre-workshop activities.

## Required Preparation

Four weeks prior to the workshop. . .

The course coordinator should:

- Identify 10-15 company drawings for the workshop drawing package
- Send or email workshop drawing package and agenda to company participants for workshop pre-work
- Send or email workshop drawing package to ETI instructor

Each participant should:

- Review each drawing in the workshop drawing package
- Create at least two questions about each drawing for class use
- Send questions to the class coordinator within one week of receipt

*This workshop is customized to include your drawings and parts.*

Two weeks prior to workshop, the course coordinator should send or email participant questions to the ETI instructor.

### 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

**Provide your employees or management with an overview of GD&T.** Let ETI provide employees with an a short intro or refresher on GD&T. We can also give your management team a perspective of how GD&T affects the organization and product development process, and how it can maximize your ROI.

**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.

### Learn about the fundamental definitions, concepts, and methods from the ASME Y14.41-2003 Standard.

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

**Learn and practice the system approach to component design.** This course will change the way many engineers think about part tolerancing. Students will actually do a design functional analysis on a customer assembly, then specify GD&T on components from the assembly during the workshop.

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.

To receive more information about our onsite workshops information—or to request a custom quote package—contact a GD&T account executive at 1-800-886-0909, or email [sales@etinews.com](mailto:sales@etinews.com).



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