

# ASME - ISO Standard Comparison Workshop

(Based on ASME Y14.5M-1994 and European ISO Standards)

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



Let one of ETI's qualified instructors come to your site to conduct a hands-on workshop explaining the differences between the American ASME Y14.5 dimensioning standard and the European ISO standards. 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. Alex 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. As a member of the ASME Y14.5 Committee on Dimensioning and Tolerancing and chairman of the Y14.41 Committee on Solid Model Dimensioning, Alex is 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

Exclusively from ETI, the ASME-ISO Comparison Workshop will help you to understand the differences between the American ASME Y14.5M-1994 Dimensioning and Tolerancing Standard and the European ISO standards.

## Who Should Attend

This course is for designers, engineers, inspectors and machinists and anyone who works with ISO standards on drawings.

## Workshop Highlights

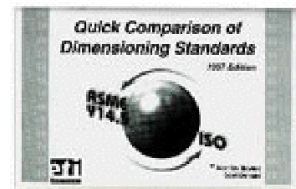
The ASME-ISO Comparison Workshop is a one-day course that highlights and explains the major differences between the standards in a concise, easily understood manner. It covers how the standards compare when dealing with symbols, feature control frames, tolerances, form controls, datums, and more.

## Skill Level Needed

Attendees must have a basic understanding of Y14.5 Dimensioning and Tolerancing practices.

## Each workshop participant receives:

- A copy of a *Quick Comparison of ASME to ISO Standards*
- An *ASME/ISO Exercise Workbook*
- 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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## The 8-hour workshop covers:

### Standards, Technical Drawings

ISO standards information  
Technical drawing information

### General Tolerance Topics

Symbols  
Feature controls frames  
General tolerances

### Form Controls

Flatness  
Notes  
Straightness

### Datums

Centerpoint  
Common axis  
Implied datums  
Datum sequence  
Datum targets  
Median plane  
Virtual condition

### Angular Tolerances

Effects of form with angularity

### Position

Composite position  
Control of deep holes  
Position as a surface control  
Position applied to a line  
Position applied to a point  
Projected tolerance Zone  
Simultaneous gaging  
Patterns

### Symmetry / Concentricity / Profile

Symmetry  
Concentricity / coaxiality  
Composite profile  
Profile tolerance zone direction

### Customer Drawing Review / Questions

Review of tolerances on customer drawings  
Questions

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 fundamental definitions, concepts, and methods from the new 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.

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](mailto: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.



[www.etinews.com](http://www.etinews.com)

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