

## Advanced Concepts of GD&T Two-Day Workshop

Based on ASME Y14.5M-1994



### Course Developer: Alex Krulikowski, President of Effective Training Inc.

Learn GD&T from the experts. Professionals across the globe turn to ETI for training in geometric dimensioning and tolerancing. ETI's president, Alex Krulikowski, has helped more than 60,000 students learn GD&T through his textbooks, self-study courses, computer-based training programs, and online learning center. Now you have the opportunity to learn GD&T in a course developed by Alex at an ETI public workshop.

### 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

This accelerated course was developed to meet your advanced GD&T needs by building on your existing fundamental skills. You'll learn about advanced GD&T concepts like composite tolerancing, tolerance analysis, datum selection, non-rigid part dimensioning, and many more key dimensioning topics. The course covers a variety of topics from advanced GD&T concepts to the system approach for part dimensioning.

Westland, Michigan

March 28-29  
September 19-20

### Who Should Attend

This workshop is a valuable tool for individuals who create or interpret engineering drawings: product and gage designers; process, product, and manufacturing engineers; supplier quality engineers; CMM operators; buyers/purchasers; checkers; inspectors; technicians; and sales engineers. engineers; CMM operators; buyers/purchasers; checkers; inspectors; technicians; and sales engineers.

### Workshop Highlights

The workshop is based on a series of goals and objectives. It includes numerous practice problems and in-depth coverage of GD&T advanced concepts. You will learn to solve real-world problems; understand datum selection, how to reduce product costs, profile tolerancing, form controls, positional tolerancing, and part calculations. CEUs will be awarded for successful completion of the course.

### Skill Level Needed

This is not an introductory course. In order to understand the course content, you should have:

1. Completed 16 hours of formalized classroom training in GD&T
2. Experience interpreting or applying GD&T in an industrial setting
3. Have a working knowledge of the ASME Y14.5M-1994 Standard

A certificate from any ETI Fundamentals of GD&T course is acceptable.

### Each workshop participant receives:

- A copy of *Advanced Concepts of GD&T*, by Alex Krulikowski
- A *GD&T Ultimate Pocket Guide*
- Class handouts
- An official certificate of completion
- Continental breakfast, morning and afternoon snacks

### PLUS

- ETI's Digital Design Dictionary software (\$79 value)
- A 30-day pass to the Fundamentals of GD&T 1994 web training (\$159 value)



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Enrollment is limited to 15 seats. Call 1-800-886-0909 or visit our website to register, today.

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### Course Agenda and Highlights

- Functional dimensioning
- Rigid / flexible parts - specification and interpretation
- Restraint notes on non-rigid parts - specification and interpretation
- Restrained part datum system on non-rigid parts
- Form control applications: seal, assembly, support, flatness
- Datum system
- Ten common datum feature types - specification and interpretation
- Datum target applications
- Special datum feature applications: screw threads, gears, splines temporary datum features
- Tolerance of position: modifier usage, loss function curve types, and applications
- Simultaneous and separate requirements for tolerance of position
- Composite position tolerancing
- Multiple single-segment position tolerancing
- Tolerance of position applications with a conical tolerance zone
- Profile controls, three profile myths
- Simultaneous and separate requirements for profile
- Composite profile tolerancing - specification and interpretation
- Multiple single-segment profile - specification and interpretation
- Profile applications

**Do you have GD&T questions?**  
Bring your drawings to class  
and get the answers!



#### Quantity discounts available.

ETI offers a 10% discount on three or more registrations. Call 1-800-886-0909 for more information.

#### Complete 2012 ETI public workshop schedule:

**Advanced Concepts of GD&T (ASME Y14.5M-1994) 2-Day:** March 28-29, September 19-20

**ASME Y14.5 1994 to 2009 Update 1-Day:** May 17

**Engineering Drawing Requirements (ASME Y14.100-2004) 1-Day:** May 16

**Fundamentals of GD&T 2-Day:**

**1994 Standard:** March 26-27, September 17-18

**2009 Standard:** April 16-17, October 8-9

**Fundamentals of GD&T for Inspectors (ASME Y14.5M-1994) 2-Day:** May 14-15

**ISO Geometrical Tolerancing (ISO 1101:2004) 2-Day:** April 18-19, October 15-16

**Solid Model Tolerancing (ASME Y14.41-2003) 1-Day:** May 18

**Statistical Tolerance Stacks 1-Day:** April 25, October 12

**Tolerance Stacks 2-Day:** April 23-24, October 10-11

Visit [www.etinews.com](http://www.etinews.com) for more details, pricing, and registration information.



**Call 1-800-886-0909 or visit our website to enroll today.**