Introduction to Statistical Tolerance Stacks Workshop

(Concept driven)

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

Learn about statistical tolerance stacks from the experts. One of ETI's qualified instructors will come to your site to conduct a hands-on workshop on statistical tolerance stacks. 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, this course is an introduction to statistical tolerance stacks. It builds upon the methods taught in the Tolerance Stacks using GD&T course.

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.

Workshop Highlights

The workshop is based on a series of goals and objectives. The course begins with a brief review of several terms used in statistical stacks. Next the course explains four methods for applying statistics to tolerance stacks. Then the course covers precautions on when and how to use statistics in stacks. The course ends with several stacks for the student to practice applying statistical methods. CEUs will be awarded for successful completion of the course.

Skill Level Needed

Please be aware that this is not an introductory course. In order to understand the course content, you should have completed the Tolerance Stacks Using GD&T course.

Each workshop participant receives:

- A copy of the *Introduction to Statistical Tolerance Stacks* textbook, by Alex Krulikowski
- Class handouts
- An official certificate of completion

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

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Course Topics

- The terminology used with statistical tolerance stacks
- Common statistical tolerance stacks methods
- Using the RSS method for calculating statistical tolerance stacks
- Using the realistic method for calculating statistical tolerance stacks
- Applying the RPL method to statistical tolerance stacks
- The Monte Carlo method for use on tolerance stacks
- The precautions needed when using statistical tolerance stacks
- Calculating statistical tolerance stacks

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

Receive a complete GD&T education.
Don't stop with the fundamentals. 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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