

Tolerance Stacks Two-Day Workshop

Concept Driven



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

Exclusively from ETI, this advanced course will show you how to calculate tolerance stacks, a crucial skill in today's competitive workplace. Solve problems in the design stage instead of the production stage, and save time and money by getting it right the first time.

Westland, Michigan

April 23-24
October 10-11

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.

Please be aware that this is not an introductory course. In order to qualify for this course, you must already know how to read a blueprint and be familiar with the fundamentals of geometric tolerancing.

Workshop Highlights

The workshop is based on a series of goals and objectives. It includes numerous practice problems and in-depth coverage of tolerance stacks applications. You'll learn how to use tolerance stacks to establish part tolerances, analyze design, create process designs, use geometric tolerances in stacks, and much much more. CEUs will be awarded for successful completion of the course.

Each workshop participant receives:

- A *Tolerance Stacks* textbook, by Alex Krulikowski
- A *Tolerance Stacks Drawing Package*
- A *Tolerance Stacks Exercise Workbook*
- A *Tolerance Stacks Summary Chart*
- A *Tolerance Stacks Excel spreadsheet*
- An official certificate of completion
- Continental breakfast, morning and afternoon snack

PLUS

- ETI's Digital Design Dictionary software (\$79 value)
- A *Tolerance Stacks Application Workbook with Solution Set* (a \$45 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 Highlights

- Importance of stacks
- Prerequisite skills
- Introduction to stacks
- The four basic stack steps
- Part stacks using coordinate dimensions
- Part stacks using runout, profile, and position
- Part stacks using bonus (planar & RFS datums)
- Part stacks using position with bonus and shift
- Part stacks using multiple geometric tolerances
- Assembly stacks using coordinate dimensions
- Assembly stacks using runout, profile, and position
- Stacks using form controls applied to a feature
- Stacks using straightness applied to a feature of size
- Stacks using orientation controls applied to a feature
- Stacks using orientation controls applied to a feature of size
- Assembly stacks using multiple geometric tolerances
- Stack matrix chart
- Evaluating a stack answer



Do you know tolerance stacks? Take our free Stacks Skills Survey today.

www.etinews.com/stacks



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 for more details, pricing, and registration information.



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