

## AUTHORITATIVE GEOMETRIC DIMENSIONING AND TOLERANCING RESOURCES

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# Critical GD&T training and resources for engineers of all skill levels

Geometric Dimensioning and Tolerancing (GD&T) is the language that connects the greater engineering community. A sharpened GD&T skill set helps engineering professionals improve the quality of their work, reduce costs, and shorten delivery time. Effective Training Inc. (ETI), an SAE International company, is your source for GD&T knowledge seminars, training tools, textbooks, and on-the-job resources. From entry-level engineering graduates to seasoned professionals striving to enhance their expertise, ETI provides training to thousands of companies, corporations, and educational organizations worldwide.

ETI is your source for GD&T

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## **LEVERAGE** GD&T **RESOURCES** ON THE **FOLLOWING TOPICS:**

- Engineering Drawing Requirements
- Fundamentals and Advanced Concepts of GD&T
- Applications of GD&T
- Critical Concepts of **Tolerance Stacks**
- Introduction to Statistical **Tolerance Stacks**
- Fundamentals of **GD&T** for Inspectors
- And more

## **EXPLORE ETI'S BROAD ARRAY OF TOOLS AND SERVICES**

Take advantage of learning resources developed by knowledgeable and experienced industry experts.

- Professional development seminars and classroom courses led by experienced ASME certified instructors
- Textbooks and workbooks
- Computer-based training
- Online learning center
- Pocket guides and other reference materials
- And more

The Levels of GD&T Proficiency

We recommend taking GD&T training in this order. Utilize our mentoring and consulting services to reinforce training on-the-job.

GD&T

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### **CRITICAL CONCEPTS OF TOLERANCE STACKS**

Understand the six critical concepts of tolerance stacks. Analyze the cumulative effect of tolerances to create tolerances on parts and assemblies. Learn an in-depth explanation of how to use tolerance stacks to analyze product designs and how to use geometric tolerances in stacks. Learn the essential methods and concepts used for creating 1D part and assembly tolerance stacks.

## **GD&T APPLICATIONS USING COMPANY DRAWINGS**

Apply GD&T to drawing and convert product requirements into GD&T specifications. Learn how to do a design function analysis on a part assembly and specify GD&T on assembly components.

#### **GD&T FUNDAMENTALS**

Understand part requirements and interpret common GD&T specifications on drawings using critical thinking skills. An in-depth explanation of geometric tolerancing symbols, their tolerance zones, applicable modifiers, common applications, and limitations.

**PREREQUISITES:** Engineering Drawing Requirements

#### STATISTICAL TOLERANCE **STACKS**

Apply statistical methods (RSS, realistic, RPL and Monte Carlo methods) to tolerance stacks.

**PREREQUISITES:** Critical Concepts of Tolerance Stacks

#### **GD&T ADVANCED CONCEPTS**

Understand part requirements and interpret complex GD&T specifications on drawings. An emphasis on non-rigid parts; learn to create statements of complex relationships through simultaneous requirements, composite and multiple single-segment tolerances. In-depth explanation of geometric tolerancing symbols, their tolerance zones, applicable modifiers, common applications, and limitations.

#### **ENGINEERING DRAWING** REQUIREMENTS

A basic class that is useful for all drawing creators and users. Overview course teaches correct interpretation of engineering drawings and covers drawing standards, drawing types, format, views and surface textures.

PREREQUISITES: Basic understanding of engineering drawings

**Awareness** 

Interpretation

Application/Analysis

## **WHY ETI?**

- Accurate, high-quality course content developed utilizing methods and principles from globally recognized GD&T expert and ETI founder, Alex Krulikowski.
- Courses taught by instructors with 10+ years of GD&T experience and standards expertise ensure relevant and effective instruction
- Proven training methods and high-value in-course materials offer useful resources and ongoing knowledge reinforcement
- Pre- and Post-training assessments evaluate understanding of topics and success of training
- Competitive pricing provides quality training within your budget
- Flexible scheduling to fit your timetable
- Scalability for groups of all sizes and experience levels means you can train your whole team no matter their knowledge-level

## COURSE REGISTRATION AND PRODUCT ORDERING

To browse our full range of products and register for courses: Visit **etinews.com** 

#### **NEED TO TRAIN YOUR WHOLE TEAM?**

Bring an expert instructor to your site to conduct hands-on GD&T training for your full staff. All of our classroom courses can be customized to include your drawings and parts. Contact ETI Sales to learn more about hosting GD&T training at your location.

#### **ETI SALES**

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