



Public Training

Learn the Simplified Framework Behind the Tolerances on your Prints

With the GD&T Fundamentals Public Training Course, you will learn a simple framework that will allow you to understand how GD&T is used and why GD&T improves the manufacturing process. This course focuses on practical knowledge and uses real-world drawing examples throughout the class to practice what is learned. We don't throw every concept at you - we focus on the concepts and terminology necessary to do your job better and improve your manufacturing operation.

Course Objectives

- Learn best practices that represent how GD&T is used in real-world design and production.
- Simplify the main requirements and terminology of the ASME Y14.5 Standard into plain English.
- Break down the majority of all concepts in the GD&T Standards into one simple unified GD&T Basics Framework.
- Learn all 14 major symbols & how to use them, which ones are most useful & which ones to avoid.
- Understand what datums do & how they are applied on drawings for design, manufacturing, & inspection.
- Discover how Max Material Condition creates bonus tolerance while maintaining a functional part.
- Reinforce all concepts by showing them on realistic manufacturing-ready engineering prints.
- Clarify all your GD&T questions, concerns, and coworker debates with our expert ASME certified instructor.
- Retain key concepts using our included resources so you will be able to apply what you learn after training.

Pricing and Discounts

Training Price: \$799

- 10% Discount when registering 3 or more people from the same company
- Bundle our seminars and save! Receive a \$100 discount for each additional registration
- In order to receive any discounts, please reach out to us for registration

What's Included in the Training

- Virtual Training completed via Zoom
- Certificate of Completion
- Review Reference Packet
- Real-world Industry Drawing Examples
- 1-Year Access to Online Platform:
 - GD&T Fundamentals Online Course
- Bonus Material access for 1 Year
- Detailed Reference Charts:
 - GD&T Premium Symbols Chart
 - Drill Tap Chart
 - ASME vs ISO Comparison Chart
 - ASME Y14.5 2009 vs 2018 Standard Comparison Chart
 - Position Conversion Chart
- 1-Year Access to our Instructor Question Line

Who Should Attend:

Our training is designed to be very approachable and geared towards everyone from entry level to those with intermediate experience. To take this training, you should have some experience in a design, production or inspection environment working with engineering drawings. You should also be able to understand how parts are represented and viewed on a print. No prior GD&T knowledge is required though.

We promise, once you take our training & understand our GD&T framework, you will drastically improve the way you work with your drawings. We don't want you to just understand theory – we want you to apply what you learn!

GD&T Basics – Engineer Essentials ©



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Section 1: Course Introduction

- What are the GD&T Standards
- Why Use GD&T

Section 2: GD&T Foundations

- Feature Control Frame
- Feature of Size Conditions
- Size Tolerance and Rule #1

Section 3: Datums

- Datums Introduction
- Primary Datum Controls
- DRF - Orthogonal Surfaces
- DRF - FOS Datums
- Datum Targets & Partial Datums

Section 4: Position

- GD&T Framework
- Position Tolerance
- Position Vs Coordinate Dimensions

Section 5: Modifiers

- Regardless of Feature Size (RFS)
- Maximum Material Condition (MMC)
- Least Material Condition (LMC)

Section 6: Profile Controls

- Surface Profile
- Profile of a Line

Section 7: Orientation Controls

- Perpendicularity
- Parallelism
- Angularity

Section 8: Form Controls

- Flatness (Surface & DMP)
- Straightness (Surface & DML)
- Circularity
- Cylindricity

Section 9: Runout Controls

- Circular Runout
- Total Runout

Section 10: Concentricity and Symmetry

- Concentricity
- Symmetry

Section 11: Conclusion

- Course Conclusion

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