

# PRINT READING + TOLERANCES

## Public Training

### Learn the Best Practices for Working with Parts, Prints, and Tolerances

Our Print Reading and Tolerances course makes it easy to read, interpret, and understand technical prints. We break down the complexities of engineering drawings into key concepts that apply to every print, using a mix of documented standards, shop floor knowledge, and real-world examples. This introductory course equips you to work with actual engineering drawings by teaching a proven process to interpret prints the right way every time.

#### Course Objectives

- Recognize and understand the most common symbols found on engineering drawings
- Identify the pertinent manufacturing information on a print, such as units of measure, general tolerances, revision history, bill of material, and other critical data
- Decipher different dimensioning methods used on engineering drawings to determine what dimensional tolerances really mean
- Interpret various views and line types on 2D drawings to visualize the full geometry of a part or assembly in 3D

#### Who Should Attend:

Our Print Reading & Tolerances course can benefit anyone who works with prints or makes decisions with them, regardless of technical background. This course is approachable at any level, with no previous print reading experience required.

We promise, once you take our training & understand our Print Reading framework, you will drastically improve the way you work with your drawings. Our goal is that you can apply what you learn immediately!

GD&T Basics - Engineer Essentials ©

#### Pricing and Discounts

##### Training Price: \$599

- 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:
  - Print Reading & Tolerances Online Course
- Real-Industry Example Webinars and Bonus Material access for 1 Year
- Detailed Reference Charts:
  - Print Reading Chart
  - Orthographic Views Chart
  - Welding Basics Chart
  - ASME vs ISO Comparison Chart
  - ASME Y14.5 2009 vs 2018 Standard Comparison Chart
- 2-Weeks Access to the Seminar Recording after Training is Complete
- 1-Year Access to our Instructor Question Line



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### Section 1: Drawing Information System

- Course Overview
- The Two Types of Drawings
- Goal of an Engineering Drawing
- Most Important Parts of a Drawing
- Field of View
- Title Block
- General Drawing Notes
- Revision Block
- Bill of Materials

### Section 2: Drawing Visualization System

- Part Geometry Lines
- Orthographic Views – Viewing 2D to 3D
- Orthographic View - Exercises
- Common Drawing Views
- Section Views
- Descriptive Dimensioning Lines

### Section 3: Special Requirement Callouts

- General Drawing Symbols & Callouts
- Holes & Threads
- Roughness & Hardness
- Fundamental Welding Symbols

### Section 4: - Tolerancing System

- Introduction to Tolerances
- Metric vs Inch
- Dimensional ( $\pm$ ) Tolerances
- Dimensioning Methods
- Dimensional Tolerance Examples
- The Basics of GD&T
- GD&T Examples

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