# GD&T Fundamentals

#### Learn the Simplified Framework Behind the Tolerances on your Prints

### Section 1: Course Introduction

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

Datum C

Datum B

↑ 7.5

15-

7 5

#### 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

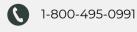
- Concentricity
- Symmetry

#### Section 11: Conclusion & Exam

- Course Conclusion
- Final Exam

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  $\ensuremath{\mathbb{C}}$ 



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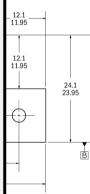


Ø 30

2+0.2

AΒ

0.20 AB









- 20 ± 0.3 -



Simulated