



## The Advanced GD&T Tactics Used to Design for Manufacturability & Inspection

### Unit 1: Revisiting Datums

- Datums Features and Simulators Review
- Using Patterns as Datums
- Datum Translation & Movable Targets
- Non Rectangular & Irregular Datums

### Unit 2: Datum Modifiers and Functional Gaging

- Max Material Boundary (MMB) & Datum Modifiers
- Simultaneous Requirements
- Position Gaging Example
- Functional Gaging Basics

### Unit 3: Composite Tolerances

- Composite Position
- Multiple Single Segment
- Composite Profile

### Unit 4: Hole and Fastener Design

- Projected Tolerance
- Fixed Fastener Calculation
- Floating Fastener Calculation
- Zero Tolerance at MMC
- Hole Process Tolerancing

### Unit 5: Envelope and Boundary Tolerance Formulas

- Envelopes and Boundaries at RFS
- Tolerance Calculations with RFS Boundaries
- Virtual Condition Review
- Resultant Condition Calculation
- VC/RC Tolerance Calculations

### Unit 6: General Advanced Symbols and Concepts

- Tangent Plane Symbol
- Statistical Tolerancing Symbol
- Restrained & Free State Callouts
- Non-Uniform Profile Segments

### Examples and Practice:

Review: Drawing Examples of Advanced GD&T Interpretation & Application (20+ Exercises located in online access Bonus Webinar Section).

All online course access includes live monthly example webinars and our large library of real part examples where we show how to apply specific content from the course.

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!

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