

Fundamentals of Geometric Dimensioning & Tolerancing (GD&T) Public Seminar – Rochester, NY

Dates: October 16 - 18, 2018

Time: 8:00AM - 4:30PM (7:30AM continental breakfast)

Location: RIT Inn & Conference Center
5257 W Henrietta Rd
Henrietta, NY 14467
585-359-1800

Cost: \$1,195 (includes course materials, hot lunches and continental breakfast). Register 2 weeks prior to the start of class and receive \$100 discount. There are additional discounts for companies sending 3 or more participants. Call for details.

Registration:

By Phone: Call us at (716) 785-6015

OnLine: <http://www.tec-ease.com/register.php>

Course Description: You'll discover the major pitfalls of traditional coordinate tolerancing — and how Geometric Tolerancing overcomes them. Then, starting with your basic blueprint knowledge, you'll learn the symbols, terminology and rules of Geometric Tolerancing as prescribed in the current standard (ASME Y14.5-2009).

Why GD&T Hierarchy?

Introduction —

- Geometric Shapes
- Geometric Characteristics

What is GD&T?

- GD&T Symbols
- Statistical Tolerancing
- Actual Envelopes
- Features of Size
- Irregular Features of Size
- Material Condition Modifiers
- The Feature Control Frame
- Boundaries
- Rules
- Continuous Feature
- Principle of Independency
- Virtual Condition

Datums

- Datum Features
- Datum Feature Simulators
- Datum Reference Frame
- Degrees of Freedom
- Datum Precedence

Datum Feature Selection

Datum Feature Controls

- Affect of Modifiers
- Rotational Constraint
- Datum Translation

Advanced Datum Concepts

- Simultaneous Requirements
- Restraint Clarified
- Datum Targets
- Customized Datum Reference Frame
- Mathematically Defined Surface
- Repetitive Patterns of Features

Form:

- Flatness
- Straightness
- Circularity
- Cylindricity

Orientation:

- Perpendicularity
- Parallelism
- Angularity
- One Orientation Symbol

Tangent Plane

Profile:

- Between Symbol
- All Around Symbol
- General Profile Tolerances
- Unequal Profile Tolerance
- Composite Profile Tolerancing
- Coplanarity
- Non-Uniform Zone

Position and Symmetry

- Position
- Composite and Single-Segment
- Inspecting Position
- Symmetry

Coaxial Features

- Position
- Concentricity
- FIM (Full Indicator Movement)
- Runout
- Profile Controlling Coaxiality