TRAINING for GD&T (Course Syllabus)

No. of Hours – 16hrs -20hrs (1 Week)

Section 1: Introduction

- Course Introduction – Why This Course is Different
- What is GD&T?
- Terminology & Basic Rules

Section 2: Features and Rules of GD&T

- Intro to Features and Material Conditions
- Rule #1 of GD&T (Envelope Principle)
- Maximum Material Condition
- Least Material Condition
- Regardless of Feature's Size & Rule #2

Section 3: Datums Control

- Intro to Datums
- The Datum Reference Frame
- Primary Datum Controls
- Intro to MMB

Section 4: Adding GD&T to a Drawing/Design

- The Feature Control Frame
- SLOF for Drawings (Size, Location, Orientation & Form)

Section 5: Form Tolerances

- Straightness (Surface)
- Straightness (Median Line/MMC) – Release Date:
- Flatness (Surface)
- Flatness (Median Plane/MMC)
- Circularity
- Cylindricity

Section 6: Orientation Tolerances

- Parallelism (Surface)
- Parallelism (Axis)
- Perpendicularity (Surface)
- Perpendicularity (Axis)
- Angularity (Surface and Axis)

Section 7: Profile Tolerances

- Profile of a Surface – Basics
- Profile (Modifiers and More Examples)
- Profile of a Line

Section 8: Location Tolerances

- True Position -Basics
- True Position vs Coordinate Dimensions
- Concentricity
- Symmetry

Section 9: Runout Tolerances

- Runout/Circular Runout
- Total Runout

Section 10: Conclusion & Frequently Asked Questions

Syllabus designed based on Industry Application , and questions people ask regarding the course topics.