



Quality-One International

GD&T Training Course Outline (ASME Y14.5)

- Introduction to Geometric Dimensioning and Tolerancing (GD&T)
- Importance of Engineering Drawings
- Base principles of GD&T
 - Maximum Material Condition
 - Least Material Condition
 - Regardless of Feature Size
 - Dependency of Size and Geometry
- Benefits of Geometric Tolerancing vs. Standard Dimensional Methods (+/-)
- Form Tolerancing
 - Straightness
 - Flatness
 - Circularity
 - Cylindricity
 - Profile of a line
 - Profile of a surface
- Orientation
 - Parallelism
 - Perpendicularity
 - Angularity
- Profile Tolerances
- Location Tolerances
 - Position
 - Concentricity
 - Symmetry
 - Datums
- Run Out Tolerances
 - Circular
 - Total