



GEOMETRIC DIMENSIONING AND TOLERANCING (GD&T)

Course Objectives

Participants will be able to understand drawings with GD & T symbols. Case studies and hands-on exercises using specially selected drawings allow participants to use and apply the information learnt in the course. Participants may also bring company drawings for interpretation during live case studies.

Course Contents

1. Introduction
 - 1.1 Geometric Dimensioning and Tolerancing: Why?
 - 1.2 GDT History
 - 1.3 Traditional versus GDT
 - 1.4 Benefit of GDT
2. Dimensioning and Tolerancing
 - 2.1 Dimensioning Practice
 - 2.2 Tolerancing Accumulation
 - 2.3 Angular Tolerance of a feature
3. The Material Condition of Feature of Size
 - 3.1 Limit of Size
 - 3.2 Virtual Condition
 - 3.3 Mating Size
 - 3.4 Fit of Mating Parts
4. The Concept of Datums
 - 4.1 Kinematic Support
 - 4.2 The Datum Reference Frame
 - 4.3 The Datum Feature Symbol
 - 4.4 Datum Targets
5. The Feature Control Frame
 - 5.1 Tolerance Zone Shape
 - 5.2 Datum Indication
 - 5.3 Material Condition Modifier
6. Form and Orientation Tolerance
 - 6.1 Straightness, Flatness, Circularity and Cylindricity
 - 6.2 Angularity, Parallelism, Perpendicularity



7. Profile and Runout Tolerance
 - 7.1 Line profile, Surface profile
 - 7.2 Circular runout, Total runout

8. Location Tolerance
 - Positional, Concentricity, Symmetrical

Who Should Attend

Technicians and Engineers in the areas of design, manufacturing and quality control who need to specify, interpret and apply geometric tolerancing.

Award of Certificate

Certificate of successful completion will be issued to participants who have attended at least 75% of the course.

Course Dates & Fees (2 or 3 or 4 days / 9am – 5pm)

Refer to our website.

Note : Contents are basically the same for 2, 3 or 4 days with 2 days being more basic, 3 days more depth and 4 days allows depth into subject matters and more case studies.

2 days at S\$ 520 (SQI Member) & S\$ 570 (Non-Member) – Sindo Building S347805
3 days at S\$1000 (SQI Member) & S\$1100 (Non-Member) – Furama RiverFront Hotel
4 days at S\$1400 (SQI Member) & S\$1540 (Non-Member) – Furama RiverFront Hotel

GST is not applicable.

(SDF funding available for SME Only – Application via www.sdf.gov.sg)

Course fees are subjected to change without prior notice.

Training Venue

2-Day course : In SQI, 66 Tannery Lane #06-07 Sindo Building S347805

3-Day or 4-Day : Furama RiverFront Hotel

For more information, please contact:

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