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Geometric Dimensioning & Tolerancing (GD&T) Workshop by ZEISS

16 - 20 July 2018, Monday - Friday
9:00 AM - 5:00 PM

ZEISS Industrial Metrology Competence Centre

50 Kaki Bukit Place
Level 1
Singapore 415926
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Geometric Dimensioning & Tolerancing (GD&T) Workshop by ZEISS

Overview and Agenda

About

Geometric Dimensioning & Tolerancing (GD&T) is a crucial skill of specifying engineering design and drawing requirements with respect to actual functions and relationships of part features. In our fast-paced industries and with the increasing demand for more specifically and economically stated engineering design requirements, today's manufacturing professionals must thoroughly understand this universal engineering language to stay valuable.

Benefits of Attending the GD&T Training

- Learn proficiency in reading engineering drawings
- Understand the latest in metrology techniques
- Gain basic knowledge of GD&T Symbols meanings and applications
- Successfully convey design intent, improve quality and reduce costs in design-to-manufacturing process
- Apply the latest in tolerance management tools
- Stand a chance to win 1 x [ZEISS VR ONE Plus](#)

Who Should Attend

Individuals who are looking to improve or start their GD&T knowledge, as well as those who wish to refresh their knowledge alike. Draftspersons, tool designers, technical inspectors, mechanical engineering technicians, and machine shop and tool-room supervisors. If you are a manufacturing and project engineer, quality control team member, engineering manager or supervisor, you will also find this seminar beneficial.

Cost

- **Early Bird** – SGD1,000.00/pax
(Register before 6 July 2018, Friday)
- **Normal Price** – SGD1,200.00/pax
(7 July 2018 onwards)
- **3 people and above** per company – SGD900.00/pax

Cost includes lunch and tea breaks across all days. A certificate is given to each participant after completion of the training. As seats are limited to 20 participants, we encourage you to register as soon as possible. To sign up for this training, please email us. See you soon!

Agenda

GD&T Principles (Days 1 - 3)

- | | |
|--------------|--|
| Day 1 | <ul style="list-style-type: none">■ Introduction + Assessment■ Basics of Technical Drawings (Overview)■ Size Tolerancing■ Basics<ul style="list-style-type: none">- ASME Specialities (Rule #1)- ISO Specialities (Envelope (E) Vs. Independency, Modifiers)- ASME/ISO Difference in Drawings■ Form Tolerancing: Roundness, Cylindricity, Straightness, Flatness |
| Day 2 | <ul style="list-style-type: none">■ Orientation Tolerances: Parallelism, Perpendicularity, Angularity■ Reference Systems<ul style="list-style-type: none">- Single Datum- Datum Systems, DFR |
| Day 3 | <ul style="list-style-type: none">■ Location<ul style="list-style-type: none">- True Position in 2D- Datum Shift vs Bonus Tolerance- Composite Tolerance- Symmetry and Concentricity / Coaxiality- ASME/ISO Differences■ Run out<ul style="list-style-type: none">- Circular Runout- Total Runout■ Profile<ul style="list-style-type: none">- Profile of Line- Profile of Surface |

CALYPSO GD&T Practice (Days 4 - 5)

- | | |
|--------------|---|
| Day 4 | <ul style="list-style-type: none">■ CMM Measurement Strategies and Evaluation Methods■ Form Errors: Roundness, Cylindricity, Straightness, Flatness■ Directional Errors: Parallelism, Perpendicularity, Angularity■ Base Systems Reference |
| Day 5 | <ul style="list-style-type: none">■ Location Errors<ul style="list-style-type: none">- Position: Tolerance Zones in CALYPSO- Total Runout■ Runout Errors: Axial Runout, Radial Runout■ Profiles: Profile of Line, Profile of Surface■ ZEISS VR ONE Plus Raffle Draw |

[Register here today!](#)

