


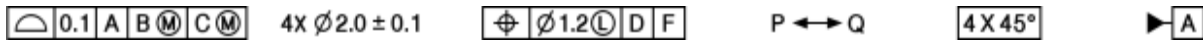
AXYMETRIX Quality Engineering Inc.

COORDINATE METROLOGY  GEOMETRIC DIMENSIONING AND TOLERANCING

Public GD&T Training Event - Langley, BC, Sept 2017

Course: Level 1 Geometric Dimensioning and Tolerancing (GD&T)	Includes textbook, course materials, refreshments, and Y14.5-2009 Update Guide!
Location: RCABC Building - Boardroom South 9734 - 201 Street, Langley, BC V1M 3E8 (Golden Ears Bridge area)	
Dates: Sept 13, 20, & 27, 2017 (3 consecutive Wednesdays)	
Time: 8:00 AM to 4:00 PM each day	

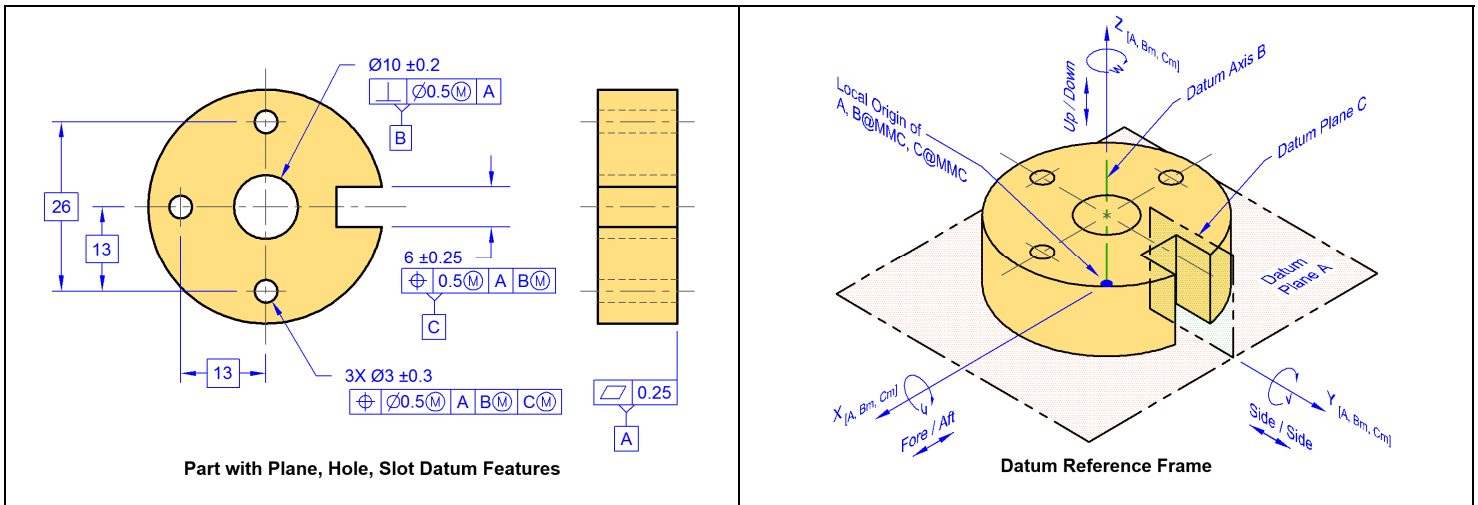
Do you need to work with GD&T specifications that follow ASME standards?



Learn from an ASME Senior Level Certified GD&T Professional!



Email ejaneshewski@axymetrix.ca or call **604-612-2996** to register.
Space is limited, so register early to save your spot!



Course Overview

- This 3-day Level 1 course is ideal for design, manufacturing, quality assurance, inspection, procurement, and management personnel who need a better understanding of drawings involving geometric tolerancing.
- Geometric Dimensioning and Tolerancing (GD&T) is a symbolic language for communicating dimensional requirements on engineering drawings. The standard most widely used in North America is ASME Y14.5M-1994.
- GD&T allows designers to create specifications that are based on fit and function requirements, and communicate them clearly to manufacturing and inspection.
- When applied correctly and consistently in an organization, GD&T significantly lowers overall costs.
- The goal is to get everyone “speaking the same language” with regards to GD&T specifications.

About the Instructor

Evan Janeshewski is an ASME certified Senior Level GD&T Professional and an active member of GD&T standards development committees including ASME Y14.5.1 – Mathematical Definition of Dimensioning and Tolerancing Principles. Evan founded Axymetrix in 2001 and has enjoyed teaching GD&T at a wide variety of companies in Canada and the US for more than 15 years.



Level 1 GD&T Course Syllabus

- Background
- Types of Geometry
- ASME Y14.5M-1994 and Y14.5-2009 Standards
- Dimensioning and Tolerancing Philosophy
- Symbolology
- Plus and Minus Dimensions and Tolerances
- Fundamental Rules and Definitions
- Material Condition and Material Condition Modifiers
- Basic Dimensioning Practices
- Actual Mating Envelopes
- Datums and Datum Reference Frames
- Form Tolerances
- Center Geometry
- Orientation Tolerances
- Virtual Condition and Resultant Condition
- Positional Tolerances
- Runout Tolerances
- Profile Tolerances
- Summary of Updates in the Y14.5-2009 Revision
- Conclusion

Course Highlights and Learning Outcomes

Learning is reinforced using exercises throughout the course. Upon completion, the student will be able to:

- Identify the symbols used on ASME Y14.5M-1994 compliant drawings
- Read feature control frames in full detail
- Describe and sketch tolerance zones and feature components
- Calculate bonus tolerance and virtual condition
- Establish datum reference frames
- Suggest inspection, fixturing, and gaging methods
- Distinguish between nominal, reference, and basic dimensions
- Understand the situations where GD&T adds the most value
- Go on to advanced GD&T courses in design, tolerance stackup or coordinate metrology

Books and Materials Included with Course

Each participant receives the following:

- **Textbook: "The Journeyman's Guide to Geometric Dimensioning and Tolerancing: GD&T for the New Millennium"** Advanced Dimensional Management Press Bryan R. Fischer - 2010 (a \$54 USD value)
- **"GD&T Visual Glossary"** Advanced Dimensional Management Press Bryan R. Fischer - 2010 (a \$25 USD value)
- **"GD&T Update Guide: ASME Y14.5-2009: Changes, Improvements, and Clarifications"** Advanced Dimensional Management Press Bryan R. Fischer - 2010 (a \$75 USD value)
- Certificate of Completion
- Lunches and breaks each day

Registration and Discounts

Course Registration Fee: \$1200.00 + GST per person

Volume Discounts: Companies that purchase three or more registrations are eligible for one of the following volume discounts:

3 or more registrations from one company: 5% discount on each registration
5 or more registrations from one company: 10% discount on each registration

Early Payment before Sep 1, 2017: 5% additional discount

Prices in this flyer are in effect until Sep 13, 2017.

Contact Information

Evan Janeshewski (Technical)

Email: ejaneshewski@axymetrix.ca
Tel: (604) 612-2996

Judy Ra (Operations)

Email: jjra@axymetrix.ca
Tel: (604) 612-2660