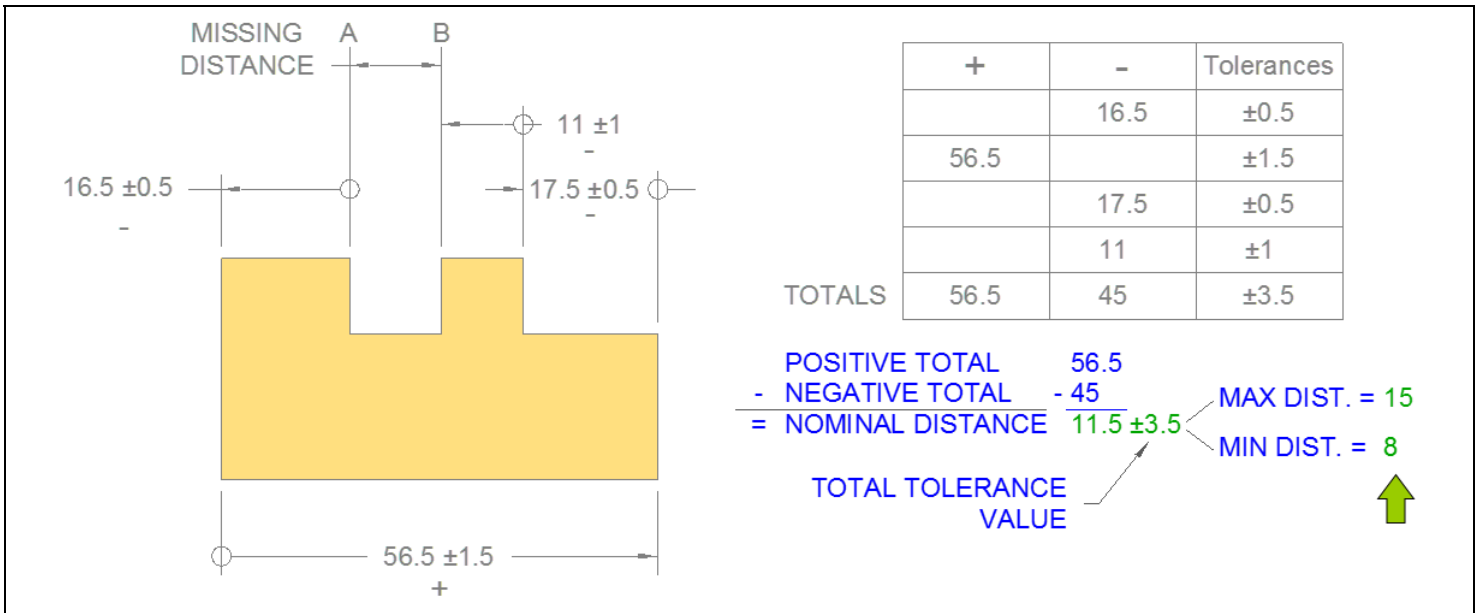


GD&T Training Event - Langley, BC, Nov 2017

<p>Course: Mechanical Tolerance Stackup and Analysis</p> <p>Location: RCABC Building - Boardroom South 9734 - 201 Street, Langley, BC V1M 3E8 (Golden Ears Bridge area)</p> <p>Dates: Nov 28 & 30, 2017 (Tuesday and Thursday)</p> <p>Time: 8:00 AM to 4:00 PM each day</p>	<p>Includes textbook, course materials, refreshments, and Tolerance Stackup Software Toolset!</p>
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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

- Format includes lecture sessions, frequent exercises, questions and discussion
- Prerequisite for the participants is working knowledge of GD&T fundamentals (Position tolerance zones, Profile tolerance zones, bonus tolerance, Datum Reference Frames).
- The cumulative effects of detail part variations and assembly methods are analyzed
- Full coverage from simple plus/minus tolerancing examples through more sophisticated GD&T applications such as datum feature shift and simultaneous requirements
- Examples showing the effects of different tolerancing and datum alternatives are analyzed
- The course emphasizes a standardized approach in which tolerance stackup calculations are documented both graphically and in line-by-line tabular format. This allows optimal understanding communication of the stackup methodology and results.

Tolerance Stackup Course Topics

- Converting +/- Dimensions and Tolerances
- Sources of Dimensional Variation
- Tolerance Analysis Methodology
- Worst-Case Tolerance Stackups
- Statistical Tolerance Stackups
- Stackups Using Position and Profile Tolerancing
- Datum Reference Frames
- Tolerance Stackup Sketch and Report Form
- Using the Tolerance Stackup Software Toolset
- Detailed Analysis of Enclosure Assembly Example

Course Highlights and Learning Outcomes

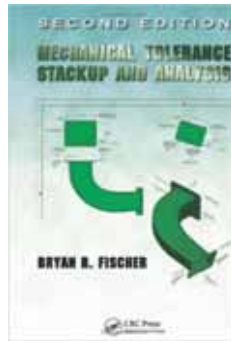
Learning is reinforced using exercises throughout the course. Upon completion, the student will be able to:

- Apply a structured method for calculating tolerance stackups for plus/minus and geometric tolerancing
- Calculate nominal and extreme distances, clearances and interferences
- Document stackup calculations in graphical and numerical formats
- Incorporate geometric effects of assembly shift, bonus tolerance, and datum feature shift into tolerance stackups
- Assess the impact of assembly methods, fixturing, tolerance accumulation, and forces during assembly
- Compare alternative geometric tolerancing and design strategies

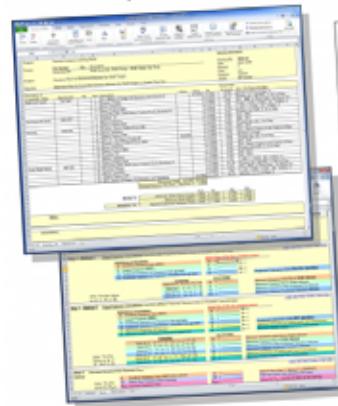
Books and Materials Included with Course

Each participant receives the following:

- **Textbook: "Mechanical Tolerance Stackup and Analysis - 2nd Edition"**, Bryan R. Fischer – 2011, (a \$100 value)
- Exercise workbook
- Quick Reference Guides
- Single-user license for Advanced Dimensional Management's Tolerance Stackup Software Toolset (a \$100 value)
- Certificate of Completion
- Lunch and refreshments each day



Advanced Dimensional Management's
Tolerance Stackup Software Toolset



Quick-Reference Guides
For GD&T and +/-



Tolerance Analysis Software and Reference Material

Registration and Discounts

Course Registration Fee: \$900.00 + 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 Nov 17, 2017: 5% additional discount

Prices in this flyer are in effect until Nov 28, 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

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 and tolerance stackup at a wide variety of companies in Canada and the US.

