

Advanced Geometric Dimensioning & Tolerancing

Mar. 19, 2026

This Advanced Geometric Dimensioning & Tolerancing (GD&T) workshop is for those with some previous exposure to geometric dimensioning and tolerancing. In this two-part workshop, Part 1 will be a review of the GD&T symbols and rules. In Part 2 more advanced topics are covered, including an update about the revised Y14.5-2018 standard. We'll also discuss the proper application of tolerances for designers, including a short module using a tolerance stack spreadsheet.

Course Highlights



- Learn the less-common GD&T tools: translation, datum shift, resultant condition, all over boundary
- Determine which datum features to choose based on function
- Select proper GD&T symbols for a mock design
- Perform tolerance stack calculations for both plus/minus and geometric tolerances
- Review of GD&T standard (2018 vs. 2009 versions)
- Datums at virtual condition (the MMB modifier)
- How to choose MMC, RFS, or LMC
- Tolerance stack analysis using the "loop" method

Prerequisite

***Prerequisite:** Geometric Dimensioning & Tolerance Fundamentals or basic knowledge of GD&T.

Who Should Attend

Process Engineers, Product Engineers, Quality Engineers, Quality Technicians and Quality Managers.

Instructor | John-Paul Belanger | Certified Sr. GD&T Professional | Geometric Learning Systems

John-Paul Belanger is certified by the American Society of Mechanical Engineers as a Senior GD&T Professional. He has conducted numerous GD&T and Tolerance Stacks classes for a variety of manufacturing clients throughout North America and Europe. For four years Mr. Belanger was the primary GD&T instructor for a major automotive OEM. He has also done extensive consulting with clients in the proper application of geometric tolerancing. He holds a degree in aerospace engineering from the University of Michigan specializing in aircraft design and safety.

More information available at mrcpa.org/events or contact Nicole Pierce at nicole.pierce@mrcpa.org. WEDnetPA eligible.



Mar. 19, 2026



8:30 AM – 4:00 PM



\$525/person. \$475 before 2/19/26
Meals and materials included



MRC – 7200A Windsor Drive
Allentown, PA 18106



Register: mrcpa.org/events

*Fees and times subject to change. Visit mrcpa.org/events for current details.