

2023 International Mechatronics Conference and Exposition

GEOMETRIC DIMENSIONING AND TOLERANCING (GD&T) WORKSHOP

Hamm Institute for American Energy, Oklahoma City, OK
September 27, 2023 | Early Bird **\$350**; After 7/1/23 **\$395**

Contents

This one-day workshop will cover comprehensive GD&T techniques and their applications to real-world problems based on ASME Y14.5M-2018 and ASME Y14.45-2021 that are commonly used standards in the United States.

Geometric dimensioning and tolerancing (GD&T) is a systematic method for defining and communicating engineering tolerances. GD&T can improve quality and reduce cost through enhanced producibility. In the current industry, GD&T is considered as one of the most critical and important skillsets for design, manufacturing, and quality control engineers. Modern GD&T inspection practice in industry has moved away from simple pass/fail gauging to usage of measurement equipment that produces numerical results. Therefore, it has become more important to know how to define numerical values to measure parts and report per the ASME standards. The concepts and theories on GD&T will be discussed, then how to examine parts for verification and how to create an inspection report according to ASME Y14.45-2021 will be practiced.

Intended audience

Any design/
manufacturing/
inspection engineers,
engineering managers,
engineering students,
teachers or faculty
members who are willing
to learn GD&T technique
and its applications.

Instructor



Dr. Chulho Yang received a Ph.D. degree in Mechanical Engineering from Purdue University as well as M.S. and B.S. degrees from Hanyang University in Korea. He also has a professional engineer (PE) license registered in Oklahoma. Before joining OSU in 2008, Dr. Yang acquired 11 years of industrial experience with ArvinMeritor technical center, IBM Korea, and KIA Motors R&D Center. Much of his work focused on vehicle structure design/optimization, vehicle NVH test and development, CAD/CAM/CAE, and engineering consulting on design methodologies. He also received an "Innovation and Achievement Award" from ArvinMeritor, Inc., a "Best Paper Award" from the International Symposium on Advanced Material and Mechanical Application, and an "Outstanding Presenter Award" from the International Symposium on Green Manufacturing and Applications. He has performed research and published in the areas of mechanical system analysis and design, noise and vibration, experimental sensitivity analysis, structural dynamics and health monitoring, design optimization, biomechanics, and protective device/structure.



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