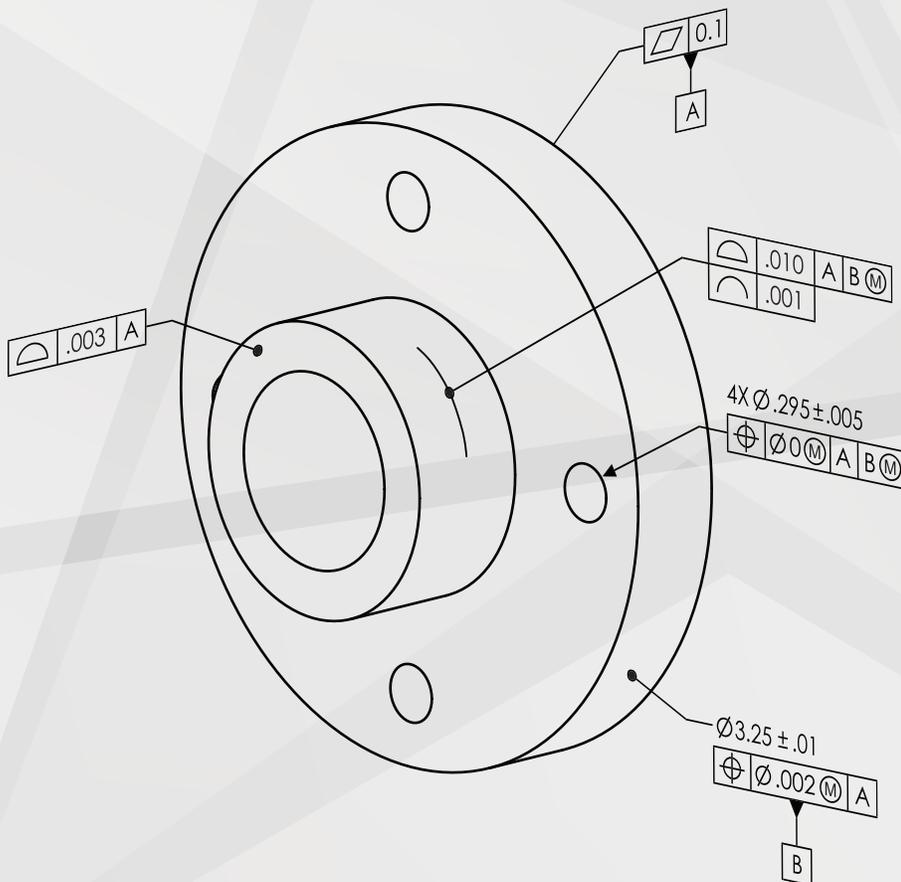


# GD&T FUNDAMENTALS COURSE

## Overview



## GD&T FUNDAMENTALS COURSE

Geometric Dimensioning and Tolerancing (GD&T) is the language used to convey dimensions and tolerances on an engineering drawing or CAD model (Digital Product Definition). GD&T provides designers the ability to clearly convey the dimensions and tolerances that are required for the function of the part. To make parts that conform to the engineering drawing, it's critical that those in manufacturing understand the language of GD&T. For those in quality, understanding the language of GD&T is essential to be able to correctly determine part conformance (and to give valuable feedback to manufacturing and design). A lack of understanding in design, manufacturing or quality will inevitably lead to various problems with significant time and cost implications.

This course provides fundamental GD&T education based on the ASME Y14.5 standard. The course covers a wide range of GD&T concepts (from basic to advanced). Regardless of previous training or experience, students will come away with a more robust, working knowledge of geometric dimensioning and tolerancing.

The course is led by a skilled instructor in the form of lecture alongside graphical illustrations and physical model sets to help convey concepts in a clear manner. There are also student exercises to help the concepts sink in. Students will be able to engage with the instructor during and after each remote session. Each student will receive a 385-page full-color graphical textbook (GeoTol Pro©) for use during the course and for a helpful reference in the future. Customer drawings, if available, are integrated throughout the course to help connect concepts to the "real world".

-  Fundamental Rules and Definitions
-  Features of Size Specifications
-  Understanding the Feature Control Frame
-  Understanding Datums, Datum Reference Frames, and Degrees of Freedom
-  Advanced Datum Concepts (Compound, RMB, MMB)
-  Form and Orientation Tolerances
-  Positional Tolerancing
-  Profile Tolerancing
-  Composite Position and Profile Tolerancing
-  Understanding Simultaneity
-  Methods of Evaluating GD&T (How to measure it)

\*Students should come with basic print reading skills. And, even those with a strong background in GD&T will inevitably grow in their GD&T competency by taking this course.

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# About the Instructor...

## Jordan Pepin, Senior GD&T Professional

Jordan has over 20 years of experience with GD&T in many different industries from agriculture to aerospace and med-tech. His unique combination of a GD&T expert as well as a recognized metrologist equips him to bridge the gap that often remains between the theory of GD&T and its implementation. For the implementation of GD&T to be successful, it needs to be properly applied in design, properly understood in manufacturing and properly evaluated in quality. Jordan truly enjoys the subject of GD&T and loves helping people move forward with their understanding and application of Geometric Dimensioning & Tolerancing.

“Jordan has always had a way of simplifying the complex topics of GD&T & dimensional metrology. Because of his passion for what does coupled with his patience as a natural educator, I cannot recommend Jordan enough.”

*Cory Samuelson* – Manufacturing Engineering Manager – Uponsor

“I would highly recommend Jordan to any company seeking GD&T training. Jordan’s extensive knowledge of the standard along with his experience in applying the principles has given him the expertise that few have achieved. Jordan can take the most complex principles and explain them in a way that anyone can understand. I wish all of our customers received their training from him.”

*Jim Corcoran* – Metrology Manager – rms

“Jordan has exceptional capability in the application of the ASME Y14 Geometric Dimensioning & Tolerancing Standard, and in educating people in this regard.”

*Blake Gorowsky* (GDTP-S 2009) – Device Mechanical Design Engineering Manager – Medtronic

“I consider Jordan an industry expert in the understanding and application of Geometric Dimensioning and Tolerancing.”

*Jim Stertz* – VP of Automation & Technology – Lowell, Inc

“I have worked with Jordan for many years during which time he has demonstrated his GD&T expertise and the ability to help people at all levels understand concepts that can be difficult to grasp.”

*Tim Monahan* – Quality Manager – Modern Molding

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