COURSE OBJECTIVES

If you have been attempting to work with GD&T, and you lack the confidence to specify or are having trouble interpreting the specifications, this course is for you. This program is a complete introduction to the Y14.5 standard. The main goal is to bring all participants to a common, basic and operational level of understanding. All 14 geometric symbols used to control size, form, orientation and location are covered. Three big concepts in GD&T – Datum Theory, Rule #1, and Material Condition Modifiers are covered in the course.

- Introduce the concepts and some of the language of the Y14.5 standard.
- Enable participants to understand each of the Y14.5 standard's symbols.
- Bring participants to a fundamental understanding of Datum Reference Frames.
- Understand the definitions and the effects of Material Condition Modifiers.
- Begin to prepare the participants for the Advanced GDT course.

TARGET AUDIENCE

This program is designed for anyone who designs, drafts, engineers, purchases, manufactures, estimates, or inspects parts and assemblies. Particular emphasis is placed on those who design and manufacture, and those responsible for quality.

COURSE SYLLABUS

1. GD&T Introduction / Overview
2. Definitions/ Concepts Overview
3. Three Big Concepts Overview
4. Material Condition Modifiers Overview
5. Virtual Condition/ Feature Control Frames Overview
6. Datum Theory Overview
7. Datums: Theory-to-Reality
8. Position Tolerancing Overview
9. Form Controls
10. Orientation Controls Overview
11. Profile Controls Overview
12. Runout Controls Overview
13. Concentricity/ Symmetry Controls Overview

DURATION:

3 Days

PREREQUISITES:

A working understanding of technical drawings (perspectives, sections, details, etc.). GD&T Overview and Print Reading suggested.

MINIMUM QUALIFICATION:

Post-Secondary (Non-Tertiary): General & Vocational

TRAINER :

Mr. Pillai is an ASME certified Senior Geometric Dimensioning & Tolerancing Professional (GDTP S09-8010) with more than 25 years of experience in the field of mechanical engineering. He has conducted GD&T trainings in Singapore, Malaysia and India. He has a MSc in Management and a Bachelor's degree in Mechanical Engineering. He spent twenty years of his engineering career various management roles associated with new product development projects, mechanical design & development, manufacturing engineering and quality assurance.