



## Geometric Dimensioning and Tolerance (GD&T)

The course is an overview of the GD&T concepts in controls necessary for proper layout and applications. The course will cover typical issues that can occur when applying a traditional coordinate system and how Geometric Tolerance can overcome them. The course will introduce the symbols, terminology and the rules for GD&T based on (ASME Y14.5M-1994).

Length: 1 day

CEUs: .7

Prerequisites: *None*

### WHAT YOU WILL LEARN

- Apply the principles of GD&T to your layout process
- Improve your understanding of Dimensioning Tolerance principles
- Reduce the number of errors by developing a system of effective dimensional tolerancing
- Controls:
  - Form
  - Orientation
  - Location
  - Runout
  - Profile

### PLEXUS LEARNING MODEL

Learning is maximized through participation. That is why Plexus training avoids lecture-based teaching and focuses on group activities, case studies and hands-on applications. *Learn by doing.*

### WHO SHOULD ATTEND

#### INSTRUCTORS

*Plexus Master Trainers.* Plexus Master Trainers train and evaluate:

- ISO 9001:2008, ISO/TS 16949:2009, AS9100, ISO 14001:2004 Environmental Management Systems, ISO 22000:2005 Food Safety, ISO 9001:2008 for Healthcare and ISO 13485:2003 for Medical Devices.
- Plexus trains 3<sup>rd</sup> party auditors and wrote the materials used to certify all of them
- Supplier Auditors

#### AGENDA

- ❖ Introduction
- ❖ Form Controls
- ❖ Datums
- ❖ Orientation Controls
- ❖ Location Controls
- ❖ Runout Controls
- ❖ Profile Controls
- ❖ Application of the 14 GD&T Characteristics