



## Geometrical Dimensioning & Tolerancing

In today's modern and technically advanced design, engineering and manufacturing world, effective communication is required to ensure the design and manufacture of successful products.

Success oriented organizations, which require accurate and common lines of communications between engineering, design, manufacturing, and quality consider (GD& T) as their mechanical drawing standard.

### ASME writes International Standard for GD&T called as Y14.5

This course covers most of the geometric dimensioning controls used on mechanical engineering drawings. The theoretical and practical concepts of each of the geometric controls are explained relative to the areas of design, tooling, production, and inspection. All **Ten modules** include a quiz. For most modules there are drawing assignments and supplementary information. The parts of a directional-change gear box are used as platforms for the geometric controls. The assembly includes shafts, gears, bearings, keys, lip seals, castings, and threaded fasteners. Possession of the ASME Y14.5 Dimensioning and Tolerancing standard is required.

### Benefits

- Learn the fundamentals of GD&T
- Improve your work skills at your own pace and convenience
- Learn-by-doing enhance learning experience
- Acquire practical tools that you can apply on the job
- Network with others in your field
- Earn 2.25 CEUs

### Course Highlights

- Symbols and Feature Control Frame
- Terms, Rules & Measurement Devices
- Straightness
- Flatness
- Circularity & Cylindricity
- Datums
- Parallelism, Perpendicularity & Angularity
- Runout
- Profile
- Position tolerance - General