Objective:
To understand 2D & 3D graphical representation of a mechanical drawing or mechanical sketches which includes multiple views, symbols and other drawing details

Course Length:
1 day (8-hours) – 0.8 CEU’s

Course Content:
- Background to Engineering Drawing Development
- Overview of Related Engineering Standards
- Review of Applicable Terms and Definitions
- Evaluation of Engineering Drawing Components
  - Line Types
  - Dimensions (baseline, chainline, coordinate, basic and reference)
  - Tolerances (linear, angular, bilateral, unilateral)
  - Symbols
  - Border
  - Title Block
  - Revision Block
  - Notes (general & specific)
- Review of Basic Drafting Conventions
  - Third Angle Projection –vs- First Angle Projection
  - Isometric Views
  - Orthographic Views
  - Section Views
  - Detail Views
- Evaluation of Generic Sample Part
- Multiple Exercises to Reinforce Views, Projections and Drafting Practices
- Introduction to GD&T
  - Overview of 14 symbols
  - Introduction to datums
  - Transformation of Linear Tolerancing to Position & Profile

Targeted Audience:
Any individual, including engineering and non-engineering managers who participate in design reviews or technical meetings within the company or with mechanical component and assembly suppliers. Any individual who needs to understand 2D & 3D graphical representation of engineering drawings and sketches. Non mechanical engineers (electrical, chemical, industrial, regulatory, etc.), machine/equipment operators and technicians, assembly personnel, administrative assistants to technical groups, technical sales and purchasing representatives who deal with mechanical components and assemblies.

Prerequisites:
None