

# Best Drawing Practices

This course introduces the participants to the available drawing standards, drawing conventions and teaches how to correctly interpret engineering drawings. It will improve a participant's understanding of print reading and result in more effective communication on the job. The course focuses on practical application of print interpretation. It will give participants a better understanding of the view representation, dimensions, tolerances, and symbols used on prints. Newly acquired learning is reinforced throughout the class with numerous practice problems.

## Engineering Drawings

- Engineering drawings
- The purpose and importance of engineering drawings
- Standards used on engineering drawings

## Drawing Formats

- Drawing sheet sizes
- Drawing zones
- Title and revisions blocks
- Angle of projection
- Engineering drawing units
- General, local, and flag notes
- Drawing scale
- Multi-sheet drawings

## Line Conventions and Lettering

- Line types on drawings
- The functions represented by line types
- Hierarchy of line types
- Lettering

## Drawing Views

- Orthographic projection
- Projection systems
- Single view and multi view drawings

- Detail, auxiliary, and assembly views

## Section Views

- Section views
- Different types of section views
- Conventional vs. true geometry
- Revolution of features
- Sectioning of assemblies

## Dimensioning and Tolerancing

- Practices for metric and English unit dimensions
- Expressing tolerance and General tolerances
- Definitions and Terms
- General symbols and abbreviations
- Thread, gear, and spline representation and specifications