

1-Day

Geometric Dimensioning and Tolerancing (GD&T) Blueprint Reading Aerospace Quality Management Systems

Register by phone

919-635-5581

Register online

www.apexqualityassurance.com



At A Glance

Training for Aerospace Quality Management Systems

This seminar equips you with the skills and knowledge to decipher mechanical drawings with confidence. While some possess a natural talent for visualizing 3D objects from 2D drawings, anyone can achieve this skill with practice and the right guidance.

The course starts by demystifying the different drawing categories and the language of line types. We'll then delve deeper into interpreting and visualizing orthographic projections, the cornerstone of mechanical drawings. Additionally, we'll explore auxiliary information like title blocks and notes, teach you to decipher dimensions and tolerances, and unpack special symbols like roughness callouts and screw threads. Throughout the seminar, you'll gain hands-on experience through practical examples, solidifying your understanding.

Seminar Goals

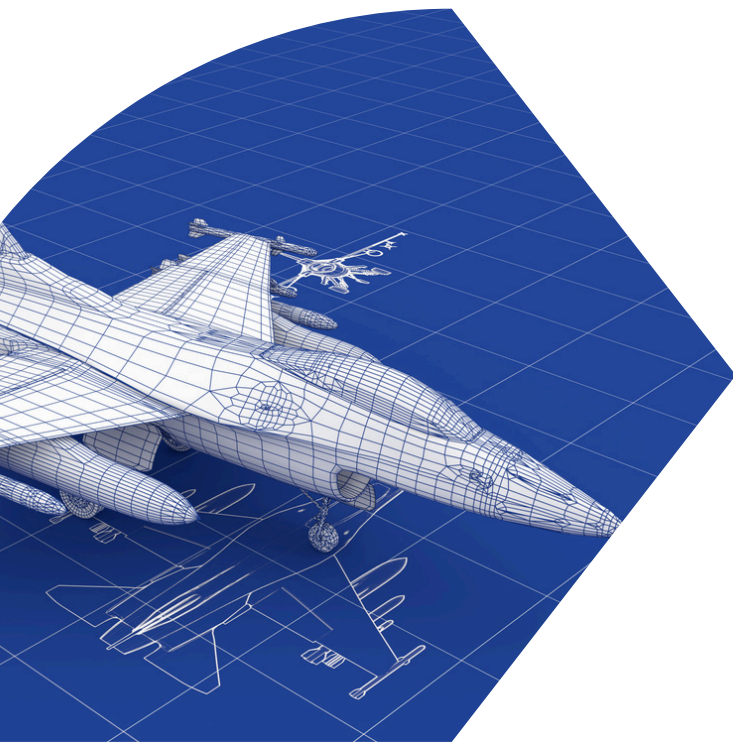
- **Master Orthographic Projections:** Confidently visualize 3D objects from 2D drawings using orthographic projection techniques.
- **Demystify Projection Angles:** Distinguish between first-angle and third-angle projection systems.
- **Line Language Expertise:** Become fluent in interpreting different line types on a drawing.
- **Unlock Auxiliary and Section Views:** Identify and correctly position auxiliary and section views for comprehensive understanding.
- **Title Block & Revision Block Mastery:** Extract vital information from title and revision blocks with ease.
- **Dimension & Tolerance Powerhouse:** Accurately interpret and apply dimensioning and tolerancing principles to any drawing.
- **GD&T Symbol & Datum Guru:** Recognize and understand Geometric Dimensioning and Tolerancing (GD&T) symbols and datums.
- **Manufacturing Callouts Demystified:** Identify and explain manufacturing callouts like screw threads and surface finishes.



Who Should Attend

Training for Aerospace Quality Management Systems

This seminar is designed for product and manufacturing engineers, manufacturing and inspection personnel, and also those involved indirectly such as purchasing, cost estimators, and administrative personnel.



Seminar Outline

Training for Aerospace Quality Management Systems

- Introduction
- Importance of Engineering Drawings
- Basic Steps in Reading a Print
- Line Types: Visible, Hidden, Center, Extension, Dimension, Section, Leader, Phantom
- The Title Block
- Orthographic Projection Views
- Visualizing in 3D
- First vs. Third Angle Projection
- Section Views
- Dimensioning Practices
- Plus/Minus vs. Limit Dimensions
- Special Dimensions/Tolerances

