Blueprint Reading

Description: This 12-hour course is designed to give the student an understanding of the various elements of an engineering drawing (blueprint) and to help him/her relate the two-dimensional views of the drawing to the three-dimensional object that they represent.

Target Audience: Anyone who needs to use engineering drawings in the performance of his/her job duties

Prerequisites: None

Delivery Method: Classroom-style lecture with PowerPoint slides and in-class discussion to encourage questions and participation

Course Outline:

- Elements of an engineering drawing
- Detail drawings
- Assembly drawings
- Welding drawings
- Purchased component drawings
- Line types
- Orthographic projection
- Secondary views
- Breaks
- Isometric views
- Exploded views
- Dimensions and tolerances
- Threads
- Common drafting symbols
- Oval slots
- Draft
- GD&T overview

Textbook: None; presentation notebook will be provided