APPLIED GEOMETRICS, INC.

Print Reading for Manufacturing Seminar

2-Day Seminar (1.6 CEU's)

Print reading is available in Spanish as an In-plant training program.

Course Description

This course explains the importance of engineering drawings in manufacturing and thoroughly describes the generation and duplication of such drawings.

Objectives

1. Introduce participants to print reading.
2. Learn drafting and print reading procedures.
3. Decipher title blocks, materials, notes and drawing changes.
4. Introduce participants to the ASME Y-14.5 GD&T language.
5. Explore specialized print reading examples.

Benefits

This course discusses the basic elements of a print and introduces the concepts that students must master to successfully interpret engineering drawings. Material covered includes: principles of shop sketching, basic review of shop mathematics, and use of common measuring tools.

Program Outline

Part 1 - Introduction to Print Reading

- Prints: The Language of Industry
- How to read the Steel Rule

Part 2 - Drafting and Print Reading Procedures

- The Alphabet of Lines
- Freehand Technical Sketching
- Understanding Orthographic Projection of Drawings
- Lettering and Dimensioning Freehand Sketches
- Auxiliary Views
- Detail and Assembly Drawings
- Shop Mathematics Review
- Measurement Tools
- Dimensions and Tolerances
- Sectional Views
- Pictorial Drawings

Part 3 - Title Block, Materials, Notes and Drawing Changes

- The Title Block
- List of Materials
- Drawing Notes
- The Drawing Changing System

Part 4 - Machining Specifications

- Geometric Dimensioning and Tolerancing
- Thread Representation and Specification
- Specification and Callouts for Machining Processes
- Gears, Splines and Serrations

Part 5- Specialized Print Reading

- Reading Numerical Control Documents
- Precision Sheet Metal Prints
- Welding Prints
- Plastic Prints
- Instrumentation and Control Drawings

Who Should Attend: Anyone who needs to read and understand print specifications.

Prerequisites: No prior knowledge of drafting or drawing is assumed.

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