Blueprint Reading for Industry

This basic print reading program explains the importance of engineering drawings in manufacturing and thoroughly describes the generation and duplication of such drawings. It discusses the basic elements of a blueprint and introduces the concepts which students must master to successfully interpret engineering drawings. No prior knowledge of drafting or drawing is assumed. This blueprint reading training covers the principles of shop sketching, basic review of shop mathematics, and use of common measuring tools. This course is a practical, application-based program that is based on current ANSI standards and includes input from a broad cross-section of industries.

Who should attend: Production and inspection personnel, supervisors, group leaders, estimators, purchasing, and set-up personnel; anyone who would like to read engineering drawings

LEARNING OBJECTIVES

- **DRAFTING AND PRINT READING PROCEDURES**
  - Prints: The Language of Industry
  - Reading a Steel Rule Applied Mathematics Measuring Tools
  - The Alphabet of Lines
  - Basic Technical Sketching, Lettering, and Dimensioning
- **FUNDAMENTALS OF SHAPE DESCRIPTION**
  - Geometric Construction
  - Multi-view Drawings
  - Auxiliary Views
  - Section Views
  - Threads and Fasteners
- **FUNDAMENTALS OF SIZE DESCRIPTION**
  - Dimensioning
  - Tolerancing
  - Machining Specifications and Surface Quality
  - Geometric Dimensioning and Tolerancing
- **INDUSTRIAL DRAWING TYPES**
  - Detail Drawings
  - Assembly Drawings
  - Pictorial Drawings
- **THE TITLE BLOCK**
  - The Title Block
  - List of Materials
  - Drawing Notes
  - Drawing Revision Systems
- **SPECIALIZED PARTS AND PRINTS**
  - Cam Prints & Diagrams
  - Reading Numerical Control Documents
  - Plastic Parts
  - Precision Sheet Metals
  - Welding Prints
  - Instrumentation and Control Drawings

Hours: 16hrs  CEUs: 1.6
Location: Central Campus
Days: Wed & Thurs
Times: 8a.m. – 5p.m.
Date: TBD
Cost: $725 (Material Incl)

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Visit our website: http://www.sanjac.edu/cpd/bp-training