

# Engineering Drawing Interpretation

Code: EDI

Duration: 16 Hours

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**Synopsis:**

Engineering drawing interpretation skills is one of the competency skills where manufacturing and quality assurance technicians and inspectors must have. Most of the time, root cause failure analysis reveal that many manufacturing technicians and inspectors lack basic engineering drawing interpretation skills.

**Course Objective:**

On completion of this course, learners will be able to:

- Understand basic engineering drawing concepts and definitions, including drawing title blocks, views, datums, parts list, and other features
- Interpret basic dimensions and tolerances, including geometric dimensioning and tolerancing
- Understand drawing features unique to the client's industry

**Course Outline:**

This course will cover:

- Tasks and Importance of Engineering Drawings
- Types of Drawings
- The Drawing Sheet
- Lettering of Drawings
- Drawing Structure
- Drawing Views
- Drawing Scales and Units of Measure
- Types of Lines and Line Interpretation
- Size and Location Dimensions
- Angular Dimensions
- Hole Dimensions
- Pattern Dimensioning Features
- Screw Threads
- Minimum and Maximum Tolerance Conditions
- Unilateral and Bilateral Tolerance Conditions
- Baseline and Chain Dimensioning
- Simple Dimensioning and Tolerancing
- Fundamental Geometric Dimensioning and Tolerancing Principles
- Form Tolerances
- Datum System
- Orientation Tolerances
- Location Tolerances
- Runout, Concentricity and Symmetry Tolerances

- Profile Tolerances
- Common Geometric Dimensioning and Tolerancing Interpretation Problems

**For Whom:**

Suitable for manufacturing supervisors, manufacturing lead personnel, manufacturing technicians, quality assurance supervisors and quality assurance inspectors.

**Entry Requirements:**

Participants are assumed to:

- Be able to listen and speak English at a proficiency level equivalent to the Employability Skills System (ESS) level 4 and above;
- Be able to read and write English at a proficiency level equivalent to ESS level 4 and above; and
- Be able to manipulate numbers at a proficiency level equivalent to ESS level 4 and above.

**Training Medium:**

This course is conducted in English.

**Training Methodology:**

This course is delivered through lectures, interactive discussions, demonstration and hands-on practices.

**Assessment Methodology:**

A drawing interpretation skills test is conducted at the end of the course.

**Certification:**

A Certificate of Proficiency will be awarded to trainees upon completing and passing the test. Otherwise, a Certificate of Participation will be issued to those who attained a minimum attendance of 75%.