

## Course Overview:

This beginner-level course is tailored for professionals in maintenance and engineering roles who need to develop foundational skills in interpreting engineering drawings and blueprints. Understanding technical drawings is essential for effectively executing tasks in manufacturing, construction, and maintenance. Participants will gain the practical knowledge required to read schematics and blueprints accurately, enhancing their ability to communicate and perform in technical environments.

## Course Objective:

By the end of the course, participants will be able to:

- Identify and describe various types of engineering and construction drawings.
- Accurately interpret symbols, notations, and scales used in technical drawings.
- Analyze schematics, P&IDs, and CAD models relevant to their work.
- Apply blueprint reading skills in routine maintenance and engineering tasks.
- Enhance their technical communication and collaboration using visual documentation.

## Course Outline:

1. Introduction to Engineering Drawings
  - Types of Engineering Drawings
  - Purpose and Importance of Drawings
  - Overview of Drafting Standards
2. Blueprint Reading Basics
  - Understanding Blueprints
  - Symbols and Notations
  - Scale and Dimensions in Drawings
3. Interpreting Technical Drawings
  - Reading Schematics and Diagrams
  - Mechanical Drawings
  - Electrical Schematics
4. 3D Models and CAD Drawings
  - Introduction to CAD Software
  - Reading 3D Models
  - Transition from 2D to 3D Drawings
5. Assembly and Detail Drawings
  - Understanding Assembly Drawings
  - Detail Drawings and Sections
  - Exploded View Drawings
6. Piping and Instrumentation Diagrams (P&IDs)
  - Reading P&ID Symbols
  - Flow Paths and Equipment Identification
  - Applications in Process Industries
7. Construction and Architectural Drawings
  - Blueprints in Construction Projects
  - Architectural Drawings and Symbols
  - Interpreting Site Plans
8. Improving Drawing and Blueprint Reading Skills

## Training Language:

English/Arabic

## Training Methodology:

The course combines various teaching methods, including instructor-led presentations, group discussions, case study analyses, and assessments through quizzes and a final exam to engage participants and ensure they understand and retain the material.

## Venue | Date | Fees

Jubail | 26-10-2025 | 17,250 SAR

- Practice Exercises
- Using Resources and References
- Continual Learning in Technical Drawing

**Who Should Attend:**

- Maintenance technicians
- Junior engineers
- Draftsmen and designers
- Technical staff in manufacturing and construction industries