



BMC Training

London TDM

Engineering and Technical Skills Training Courses

Course Venue: United Arab Emirates - Dubai

Course Date: From 31 August 2025 To 04 September 2025

Course Place: Downtown Dubai

Course Fees: 5,000 USD

Introduction

The "Engineering Drawing and Technical Documentation" course is designed to provide participants with a comprehensive understanding of engineering drawing principles and technical documentation skills essential for engineering projects. This 5-day course will offer theoretical knowledge and practical skills necessary for producing precise and accurate engineering drawings and associated documents, ensuring effective communication within engineering teams.

Objectives

- Understand the fundamentals of engineering drawing and its importance in the engineering industry.
- Develop skills for creating accurate and standardized engineering drawings.
- Learn about different types of technical documentation and their applications.
- Enhance proficiency in using specialized software for technical drawing and documentation.
- Improve the ability to interpret and analyze engineering drawings and documents.

Course Outlines

Day 1: Introduction to Engineering Drawing

- Overview of engineering drawing and its significance.
- Introduction to drawing tools and materials.
- Standards and conventions in engineering drawing.
- Basic geometric constructions and lettering.
- Orthographic projection principles.

Day 2: Advanced Drawing Techniques

- Detailed views and sectioning techniques.
- Dimensioning and tolerancing practices.
- Understanding assembly drawings.
- Isometric and axonometric projections.
- Common drawing symbols and annotations.

Day 3: Technical Documentation

- Introduction to technical documentation types and purposes.
- Creating parts lists and material specifications.
- Writing technical reports and manuals.
- Using CAD software for documentation purposes.
- Reviewing and revising technical documents.

Day 4: CAD Software for Engineering Drawing

- Overview of popular CAD software tools.
- Basic CAD commands and interface navigation.
- Creating 2D and 3D models.
- Utilizing layers, blocks, and templates.

- Exporting and sharing CAD drawings.

Day 5: Interpreting Engineering Drawings and Final Project

- Techniques for interpreting complex engineering drawings.
- Common errors and solutions in engineering drawings.
- Team exercise: Collaborative drawing interpretation.
- Presentation of technical documentation.
- Evaluation and feedback on course-end project.