# Practical 2D Drafting for Engineering Professionals Training Course



13 - 17 Dec 2026

Manama

4400 € (Per Person)

Ref: #CAD8829_214503

## Course Introduction / Overview:

This training course is designed to equip engineering professionals, technical staff, and designers with the strategic and technical skills needed to master the fundamentals of 2D drafting. The ability to create, read, and interpret technical drawings is a critical factor for ensuring accuracy and clear communication on a project. This program, offered by BIG BEN Training Center, provides a comprehensive framework for understanding the core principles of Computer-Aided Design (CAD), from various drawing tools and drafting techniques to annotation standards and file management. We will explore key concepts such as blueprint reading, scale and dimensioning, and the use of layer management. The curriculum is informed by the academic work of authors like Bertoline and Wiebe, whose book, Technical Graphics Communication, provides a foundational and detailed understanding of the principles behind effective visual communication in engineering. This course goes beyond a simple overview of software to provide a deep understanding of how to implement real-world solutions that ensure design accuracy, operational efficiency, and project profitability. We prepare participants to be leaders who can build more efficient and innovative design initiatives.

## Target Audience / This training course is suitable for:

- Aspiring engineers and architects.
- Technical staff and drafters.
- Project coordinators.
- Construction supervisors.
- Product designers.
- Urban planners.
- Surveyors.
- Government agencies and equivalents.

## Target Sectors and Industries:

- Engineering.
- Construction.
- Architecture and Design.
- Manufacturing.
- Real Estate Development.
- Utilities.
- Infrastructure.
- Government and public administration agencies.

## Target Organizations Departments:

- Engineering.
- Design and Drafting.
- Project Management Office (PMO).
- Operations.
- Quality Assurance.
- Procurement.
- Strategic Planning.
- Research and Development.

## Course Offerings:

By the end of this course, the participants will have able to:

- Apply core 2D drafting principles.
- Create and modify technical drawings.
- Utilize CAD software for design.
- Master scale and dimensioning techniques.
- Perform accurate blueprint reading.
- Manage layers and blocks.
- Adhere to industry drafting standards.
- Produce clear and precise technical documents.

## Course Methodology:

This training course uses a highly practical and case-study driven methodology. The program is built on real-world examples of successful 2D drafting applications in the engineering field. Participants will work in teams to create and modify a set of technical drawings for a hypothetical engineering project, applying the tools and frameworks learned in the course. We will use interactive workshops to practice skills like dimensioning and annotation. The curriculum is designed to be a collaborative experience where participants can share their unique challenges and innovative solutions. Our trainers, with extensive experience in the field, will provide direct feedback and guidance throughout the course. BIG BEN Training Center is committed to providing a dynamic and practical learning environment, ensuring that participants leave with the skills and confidence to effectively perform 2D drafting.

## Course Agenda (Course Units):

### Unit One: Introduction to 2D Drafting.

- The role of technical drawings in engineering.
- Introduction to CAD software.
- Understanding the user interface.
- Basic drawing tools and commands.
- Setting up a drawing file.
- Case studies in drafting.
- The importance of blueprint reading.

### Unit Two: Core Drafting Principles

- Lines, polylines, and arcs.
- Using layers for organization.
- Creating and managing blocks.
- Understanding coordinate systems.
- The principle of orthographic projection.
- Creating sections and views.
- Best practices for drafting techniques.

### Unit Three: Annotation and Dimensioning

- Understanding dimensioning standards.
- Creating and customizing dimensions.
- Adding text and notes.
- Using leaders and annotations.
- Working with symbols and callouts.
- Mastering scale and units.
- Ensuring accurate and clear communication.

## Unit Four: Plotting and Output

- Preparing drawings for plotting.
- Understanding plot styles.
- Setting up page layouts.
- Creating PDF and digital files.
- File naming and management.
- Archiving and retrieving drawings.
- Best practices for sharing files.

## Unit Five: Strategic Application and Industry Trends

- Applying drafting standards.
- Workflow optimization.
- The future of CAD technology.
- BIM integration basics.
- Career pathways for drafters.
- Using automation tools.
- The impact of technology on design.

# FAQ:

### Qualifications required for registering to this course?

There are no requirements.

### How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

## Something to think about:

How can a deeper understanding of the fundamentals of 2D drafting and a proactive approach to file management empower engineering professionals to move beyond traditional methods and become strategic leaders in creating more accurate, efficient, and collaborative projects?

## What unique qualities does this course offer compared to other courses?

This training course is unique because it provides a dedicated, strategic focus on the fundamentals of 2D drafting. While other programs may cover general software use, our curriculum is designed to empower professionals with the specific skills needed to address the unique challenges of technical documentation, from mastering dimensioning to ensuring data accuracy. The program is a hands-on experience, with exercises that directly simulate the challenges and decisions involved in a real-world drafting scenario. We go beyond theoretical concepts to provide a clear, actionable roadmap for balancing the demands of a complex project with the imperative of delivering a successful and well-documented outcome. This course is for professionals who want to lead their organizations toward a more efficient, profitable, and innovative future.