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29024

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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

## Engineering Drawing



### Engineering Drawing Course

Offered by: Engineering Office for Technology and Software Services Academy

### Course Introduction

This course is designed to provide students, technicians, and professionals with a solid foundation in engineering drawing principles, techniques, and CAD tools. It combines theoretical knowledge with hands-on practice, equipping participants to produce precise and professional technical drawings.

Main Branch: United building – E Shams –Front NBE  
, El Siouf \_Alexandria

Tel: 01102060500-01144470856



الفرع الرئيسي: عمارات المتحدة – عمارة عين شمس – امام البنك  
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### Course Description

Participants will explore both manual and computer-aided drawing methods. The course covers technical standards, drawing instruments, orthographic and isometric projection, sectioning, dimensioning, and CAD using AutoCAD. It concludes with a final project to consolidate learning through real-world application.



### Course Objectives

- Understand the principles of engineering drawing.
- Master technical drawing instruments and international standards.
- Apply orthographic and isometric projection techniques.
- Create accurate section views and precise dimensions.
- Learn CAD fundamentals using AutoCAD.



### Main Topics Covered

1. Introduction to Engineering Drawing
2. Drawing Tools and Techniques
3. Orthographic Projection
4. Isometric and Axonometric Views
5. Sectional Views
6. Dimensioning and Tolerancing
7. Geometrical Constructions
8. Title Block and Standard Formats
9. Introduction to AutoCAD
10. Final Project



### Materials Included

- Printable lecture notes
- Engineering drawing templates
- Practice exercises and solutions
- AutoCAD trial guidance and files
- Standards & reference sheets (ISO, ANSI)



### Instruction & Requirements

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**Engineering office for Technology and Software Services**

- **Level:** Beginner to Intermediate
- **Format:** In-person / Online / Hybrid
- **Duration:** 40 Hours
- **Tools Required:**
  - Drawing instruments (compass, ruler, protractor, set square)
  - Computer with AutoCAD installed (for digital modules)
- **Prerequisites:** Basic math and spatial understanding

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