

Scandinavian Academy
Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

Course: Introduction to Technical Drawing

Code	City	hotel	Start	End	price	Language - Hours
CM-806SA	Abha	Hotel Meeting Room	2027-02-07	2027-02-11	12950 SR	En - 25

PROGRAMME SUMMARY

Technical and Engineering Drawing" is a fundamental course of engineering technology, including two parts: basic theories and advanced practices. The first part will introduce the theory of projection and its application on drawings. The second part is to give students general experience in producing a variety of mechanical drawings.

An Engineering drawing is the scientific portrayal of an object, and according to several national and international standards of practice it can be understood by all, with the knowledge of basic principles of drawing. Machine drawing is the indispensable communicating medium employed in industries, to furnish all the information required for the manufacture and assembly of the components of a machine. People associated with engineering must be familiar with standards of engineering graphics as is expected in the industry. The module here explains the concept of Engineering drawing and its various usages in an industry.

An Introduction to Technical Drawing' is an entry-level course on the fundamentals of technical drawing used in all forms of engineering such as electrical, industrial, mechanical and civil. It is a short briefing on the basics of drawing, the instruments involved and the proper use of dimensions. First, it explains the various types of engineering fields and their distinctions. It quickly moves onto what technical drawing is and the methods used to represent ideas and designs.

You will learn to distinguish between artistic expression and engineering drawing, and discover how large a role technical drawing plays in manufacturing and industry. You will examine the equipment needed to successfully proceed in this career.

OBJECTIVE

- Complete overview of technical drawings
- Bills of material, notes, and Information blocks
- Types of lines, dimensions, and dimensional tolerances
- Sectional and detail views
- Visualizing a part using an engineering print
- Orthographic projection
- Know the different types of technical drawings and diagrams
- Understand the standard engineering drawing formats

WHO SHOULD ATTEND

This training course is intended for Electrical and Mechanical Engineers, Professionals, Product Manufacturers, Inspectors, Machinists, Production Personnel.

Construction workers who are involved in the interpretation of mechanical engineering drawings.

THE SCIENTIFIC CONTENT OF THE PROGRAM:

Modual (1): Introduction in Mechanical drawing:-

- Introduction
- Course Overview
- History of Engineering Drawing
- Role of Engineering Drawing in Engineering Design
- Standards and Conventions in Engineering Drawing.

Modual (2): Orthographic Projection:-

- Introduction to Orthographic Projection

- Orthographic Projection Principles
- Multiview Projections
- Auxiliary Views
- Sectional Views.

Modual (3): Dimensioning:-

- Introduction to Dimensioning
- Types of Dimensions
- Dimensioning Techniques
- Tolerances and Fits
- Geometric Dimensioning and Tolerancing (GD&T).

Modual (4): Tolerances and Fits:-

- Introduction to Tolerances and Fits
- Types of Fits
- Limits and Fits
- Clearance, Interference, and Transition Fits.

Modual (5): Standard Conventions:-

- Introduction to Standard Conventions
- Welding Symbols and Conventions
- Surface Roughness Symbols and Conventions
- Thread Symbols and Conventions
- Fastener Symbols and Conventions.
- Fastener Symbols and Conventions.
- Case studied and practical examples.

The Scandinavian Academy for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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