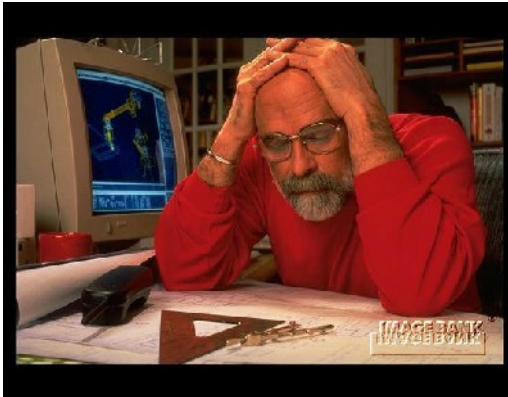


AutoCAD



Course: AutoCAD (Basics, 2D & 3D)

What is AutoCAD ?

AutoCAD® software is the world's leading customizable and extendable CAD software for 2D drafting, detailing, design documentation, and basic 3D design. With a continuously innovation for 20 releases, AutoCAD® gives you out-of-the-box productivity. Migration and deployment are easy, and intuitive new features make learning a snap. New drafting and annotation tools such as dynamic blocks and enhanced hatching eliminate the need for time-consuming workarounds. These new features in conjunction with powerful tools like the Sheet Set Manager and tool palettes offer a complete set of tools to manage everything from simple to complex projects. AutoCAD works the way you've always wanted and brings a new level of efficiency and effectiveness to your everyday tasks. With such a strong Computer Aided Design Software, it is now possible for you to print, share, edit and save your drafts and drawings with no stress at all.

Benefits of AutoCAD

From creating single drawings to managing entire sets of drawings, from sharing design information over a network and also the web to creating compelling, graphics-rich presentations that market your work—AutoCAD helps you go further with the new standard in CAD productivity. With A lot of new innovations and improvement on the AutoCAD, you can now work faster and smarter on a wide range of day-to-day tasks. From the new dynamic blocks capability that enables you to create, manipulate, and extract data from blocks quickly and efficiently, to the dynamic input features that enable you to focus on your design rather than on the software, AutoCAD still remains the worlds No 1 in Computer Aided Design.

Course Description/ Overview

First released in 1982, AutoCAD is now the leading program for computer-aided design throughout the world. It is an essential tool in many industries, including mechanical and civil engineering, architecture, facilities planning and management. More employers use it, and need workers skilled in it, than any other CAD (Computer Aided Design) system.

The course takes a step-by-step approach to learning AutoCAD, starting with a few basic tools to let students create and edit a simple drawing, and then gradually introducing more advanced tools. Examples and practice exercises are taken from a variety of the fields where AutoCAD is used.

This program begins by focusing on the basic of AutoCAD, 2D drawing and editing tools, objects on layers, text, and basic dimensions. Once the student masters the basic skills, they will move on to explore efficiency tools, complex objects, using external reference/image files, advanced plotting, enhancing productivity with simple customization. Students will also be introduced to and perfected in AutoCAD's 3D features.

Course Objectives

By completing this course the student will learn to:

- Create accurate dimensioned drawings.
- Setup drawings to plot.
- Build a library of symbols that can be reused.
- Develop template files with standard settings.
- Coordinate reference drawings.
- Create Both 2 and 3 Dimensional Drawings
- Work with Drafts and Drawings over a network of computers

Duration: 4 weeks

This course is designed for Architects, Architecture students, All engineers, and engineering students, GIS (Geographic Information Systems) personnel, Facilities Management Personnel, Multimedia personnel, Technicians, surveyors, Urban & Regional Planners etc

This course covers the whole of AutoCAD, which is the most widely used technical drawing program in the world due to its high flexibility.

Prerequisite

- Basic knowledge of the computer operation is an added advantage.

Course Outline

Part 1 AutoCAD Basics

- Introduction to AutoCAD
- Installation and configuration of AutoCAD
- Starting to draw
- Opening a drawing
- Using commands
- Specifying co-ordinates

Part II Drawing in 2 Dimensions

- Drawing simple lines
- Drawing curves and point objects
- Viewing your drawing
- Editing your drawing: Basic tools
- Editing your drawing: Advanced tools
- Organizing drawing with layers, colors, line types and line weights
- Getting information from your drawing
- Creating texts
- Drawing dimensions
- Creating dimension styles and tolerance
- Drawing complex objects
- Plotting and printing your drawing

Part III Working with data

- Working with blocks and attributes
- Referencing other drawings
- Working with external databases

Part IV Drawing in 3 Dimensions

- Specifying 3D co-ordinates
- Viewing 3D drawing
- Creating 3D surfaces
- Creating solids and editing in 3D
- Rendering in 3D

Part V Organization and managing dimensions

- Keeping control of your drawings
- Working with other applications
- Customizing commands and tool bus
- Creating your own line types & hatch patterns
- Creating shapes and fonts

Part V Working On A Network

- The Network Concept
- Tracing Network Path
- Network File Management
- Network Accessibility
- Multi-User Scenarios
- Sharing your Drawings

Contacts



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