

AUTOCAD

LEVEL 1



Duration: 10 Modules/ 20 hours

Prerequisites:

Recognized Certification: Yes

Course material: provided

Pedagogical means:

- Distance learning
- Demonstrations
- Training material included

Skills acquired at the end of the training:

- Employ AutoCAD interface & tools to complete basic drawings.
- Demonstrate proper application of the draw, modify, and annotate tools to a residential drawing.
- Set-up drawing properties using metric or imperial units
- Setup a typical page for drawing creation and eventual printing.
- Draw and develop typical 2-dimensional architectural floor plans.
- Create drawings complete with Text and Dimensioning.
- Use and create block libraries to increase productivity.
- Plot drawing to popular paper sizes at various scales.

DESCRIPTION

This course provides the student with an introduction to the principles and uses of computer-assisted drafting and design (CADD). The course will focus on introductory level commands and techniques using the latest version of AutoCAD. Upon successful completion of this course, the student will be able to utilize AutoCAD commands and co-ordinate entry methods, set up parameters for CADD drawings, and achieve a basic level of file management in the Windows environment. Concepts will be applied through a series of in-class problem solving drawing exercises and through the production of 2d mechanical drawings and architectural floor plans.

PROGRAM

Module 1: Introduction to AutoCAD

- Installing Autocad
- Starting AutoCAD
- AutoCAD's user interface
- Navigating around a drawing
- Setup procedures- drawing units and limits
- Drawing a line

- Drawing a line accurately using ABSOLUTE coordinate system (exer.1)

Module 2: Drawings liens accurately

- Drawing a line accurately using RELATIVE coordinate system (exer. 2)
- Drawing a line accurately using POLAR coordinate system (exer. 3)
- Drawing a line using direct entry method with the aid of Ortho (exer. 4)
- Drawing a line using direct entry method with the aid of Polar Tracking (exer. 5)

Module 3: Drawing basic shapes

- Drawing Circles
- Drawing Polylines
- Drawing Rectangles
- Drawing Polygons
- Drawing Arcs
- Drawing Ellipses
- Object Snap tool

Module 4: Modify commands

- Various ways to select objects
- Modifying existing objects using various modify commands



Module 5: Using layers to organize a drawing / Object snap tracking

- Layers
- Object snap Tracking

Module 6/7: Orthographic projection drawings 1&2

- Orthographic Projection Drawings

Module 8: More modify Commands

- More Modify Command
- Array- Rectangular, Polar, Path
- Stretch
- Scale
- Utility Commands
- Distance
- Area
- List
- Properties Panel

Module 9: Creating Section drawings/ and Isometric drawings

- Section Drawings
- Isometric Drawings

Module 10: Printing with Line weights/ Final Review Exercise

- Line weights
- Printing to a pdf

QUESTIONS & ANSWERS

