

AutoCAD Fundamentals

Overview

The objective of AutoCAD Fundamentals is to enable students to create a basic 2D drawing in AutoCAD. Even at this fundamental level, AutoCAD is one of the most sophisticated computer applications you are likely to encounter. Therefore, learning to use it is not a trivial undertaking. To make the process easier and provide flexibility for students, the course is divided into two parts.

Part 1 covers the indispensable core topics for working with AutoCAD. The teaching strategy is to start with a few basic tools that enable the student to create and edit a simple drawing. They then continue to develop those tools, as well as being introduced to more advanced tools throughout the course. Not every command or option is covered, because the intent is to show the most essential tools and concepts.

Part 2 continues with more sophisticated techniques that extend the student's mastery of the program. For example, here the course goes beyond the basic skill of inserting a block to learn how to create blocks, and beyond the basic skill of using a template to understand the process of setting up a template.

Duration:

Part 1: 24 Hours

Part 2: 16 Hours

Prerequisites

- A working knowledge of basic design/drafting procedures and terminology
- A working knowledge of Windows

Fundamental Topics

Part 1:

- understanding the AutoCAD workspace and user interface
- using basic drawing, editing, and viewing tools
- organizing drawing objects on layers
- inserting reusable symbols (blocks)
- preparing a layout to be plotted
- adding text, hatching, and dimensions

Part 2:

- using more advanced editing and construction techniques
- creating local and global blocks
- setting up layers, styles, and templates