

# Autodesk AutoCAD Essentials

## Course Outline

### Course Description

The course takes participants through the basics of AutoCAD/AutoCAD LT, to a point where candidates are competent using its commands and tools. It is designed to provide a thorough grounding of the software so they can create new drawings, edit existing drawing and prepare drawings for accurate plotting, helping them to excel in their field.

#### Duration –

2 Days

#### Who should attend?

Novices or users with little experience and/or those who have used different CAD package.

#### Learning Objectives?

To receive a thorough grounding in AutoCAD enabling candidates to produce and plot 2D drawings so they can excel in their fields.

#### Getting Started

- Starting and closing AutoCAD
- AutoCAD interface overview
- Managing drawing files

#### Display Commands

- Drawing scale and view magnification
- ZOOM and pan commands
- Other useful display tools

#### Drawing Setup

- Drawing setup overview
- Creating new templates
- Using the command wizard

#### Coordinates and Basic Drafting Tools

- Precision drawing
- Using Snap and Grid
- User and world coordinate systems



## Creating/Editing 2D Geometry

- Standard drawing and formatting tools
- Introduction to LWPOLYLINES/POINTS and SPLINES
- Deleting and selecting tools
- Modifying geometry – OFFSET/TRIM/EXTEND
- Orthographic views and construction lines
- Crosshatching overview

## Managing Object Properties

- Introduction to layers and properties manager
- Managing/Overriding object properties by layer
- Scaling and line types/weights

## Creating Text & Defining Styles

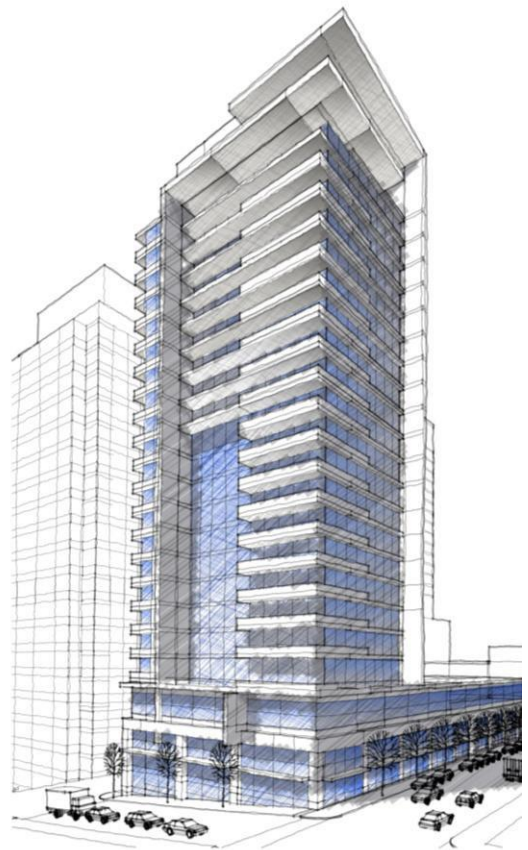
- Introduction to single line text and multiline MTEXT objects
- Creating and modifying text styles
- Creating, editing and inserting blocks
- Defining and extracting attributes

## Introduction to Dimensions

- Distance/Ordinate and Angular dimensioning
- Editing and formatting dimensions
- Inserting Leaders
- Dimension styles and drawing scales
- Using styles in other drawings

## Page Setup and Layouts

- Creating new layouts and drawing templates
- Using layouts and viewports
- Setting and locking viewport scale
- Using design centre to import layouts



### Course Requirements –

- Microsoft® Windows®7, Vista® or XP working knowledge.
- Drafting and design experience is a plus.

### Additional Info -

Candidates receive comprehensive courseware upon completion.

Afterwards they have the option of completing the Autodesk AutoCAD Certification exam and gaining the 'Autodesk – certified' status.