

# Learning AutoCAD & AutoCAD LT

## Description

Duration:3 Days

Learn the features, commands and techniques for creating, editing & printing drawings with AutoCAD and AutoCAD LT. Using hands-on exercises, users explore how to create 2D production drawings.

## Course Objectives:

To allow students the opportunity to obtain an understanding of AutoCAD software and develop skills to enable production of professional 2D drawings using AutoCAD and AutoCAD LT.

On completion of this course students will have been given the opportunity to be able to:

- Navigate the AutoCAD and AutoCAD LT user interfaces.
- Use the fundamental features of AutoCAD and AutoCAD LT.
- Use the precision drafting tools in AutoCAD and AutoCAD LT to develop accurate technical drawings.
- Produce drawings in accordance with AS1100

## Who should attend & Course Prerequisites:

This course is designed for new users of AutoCAD or AutoCAD LT.

No previous CAD experience is required but students should have a sound level of computer literacy and an understanding of drafting or engineering principles.

**Getting Started with AutoCAD** lays the foundations for gaining further competencies in the use of AutoCAD. Topics covered in Day 1 serve as an introduction to Computer Aided Design and Drafting using AutoCAD. These topics will be revised and expanded upon throughout the 3 day Learning AutoCAD Course.



## Learning AutoCAD Course Outline:

### Getting Started with AutoCAD 9:00...5:00

- Starting AutoCAD
- AutoCAD's User Interface
- Working with Commands
- AutoCAD's Cartesian Workspace
- Opening an Existing Drawing File
- Viewing Your Drawing
- Saving Your Work
- Drawing Lines
- Erasing Objects
- Drawing Lines with Polar Tracking
- Drawing Rectangles
- Drawing Circles
- Undo and Redo Actions
- Create a Simple Drawing
- Create Simple Shapes
- Using Running Object Snaps
- Using Object Snap Overrides
- Polar Tracking at Angles
- Object Snap Tracking
- Selecting Objects for Editing
- Moving Objects
- Copying Objects
- Rotating Objects
- Editing with Grips
- What are Layers?
- Match properties
- Drawing Arcs
- Working with Object Properties
- Measuring Objects
- Trimming and Extending Objects
- Stretching Objects
- Offsetting Objects
- Printing Concepts
- Working in Layouts

- Creating Viewports
- Guidelines for Layouts
- Printing Your Drawing
- Printing Layouts
- Printing from the Model Tab
- Adding Text in a Drawing
- Modifying Multiline Text
- Adding Linear Dimensions
- Adding Radial & Angular Dimensions
- Editing Dimensions
- Viewing Your Drawing
- Saving Your Work

### Days 2 and 3 9:00...4:00

All topics covered in Getting Started and revised and expanded upon throughout days 2 and 3.

### Making Changes in Your Drawing

- Selecting Objects for Editing
- Moving Objects
- Copying Objects
- Rotating Objects
- Scaling Objects
- Mirroring Objects
- Editing with Grips

### Organizing Your Drawing with Layers

- Creating New Drawings With Templates
- What are Layers?
- Layer States
- Changing an Object's Layer

### Advanced Object Types

- Drawing Arcs
- Drawing Polylines



- Editing Polylines
- Drawing Polygons
- Drawing Ellipses

#### **Getting Information from Your Drawing**

- Working with Object Properties
- Measuring Objects

#### **Advanced Editing Commands**

- Trimming and Extending Objects
- Stretching Objects
- Creating Fillets and Chamfers
- Offsetting Objects
- Creating Arrays of Objects

#### **Inserting Blocks**

- What are Blocks?
- Inserting Blocks
- Working with Dynamic Blocks
- Inserting Blocks with DesignCenter

#### **Projects - Creating More Complex Objects**

#### **Setting Up a Layout**

- Printing Concepts
- Working in Layouts
- Copying Layouts
- Creating Viewports
- Guidelines for Layouts
- Printing Your Drawing
- Printing Layouts
- Printing from the Model Tab

#### **Preparing to Print**

- Mechanical Project
- Architectural Project

#### **Text**

- Working with Annotations
- Adding Text in a Drawing
- Modifying Multiline Text
- Formatting Multiline Text
- Adding Notes with Leaders to Your Drawing
- Creating Tables
- Modifying Tables

#### **Hatching**

- Hatching
- Editing Hatches

#### **Adding Dimensions**

- Dimensioning Concepts
- Adding Linear Dimensions
- Adding Radial & Angular Dimensions
- Editing Dimensions

#### **Projects - Annotating Your Drawing**

