

# AutoCAD Essentials: Foundation (Level 1)

**Category:** Computer Aided Design (CAD), AutoCAD

**The following items are covered during the AutoCAD Essentials: Foundation (Level 1) course:**

## Getting Started

- Communicating with AutoCAD
- Understanding the AutoCAD user interface
- Getting out of trouble
- Options for starting a drawing
- Managing drawing files

## Viewing a Drawing

- Understanding drawing scale in AutoCAD
- Moving around a drawing in “real time”
- Time-saving display tools

## Basic Drafting Tools

- Using different coordinate systems in CAD
- Using object snaps to control accuracy
- Saving time with running osnaps
- Your electronic T-square

## Creating and Editing 2D Geometry

- Creating lines, circles, and arcs in AutoCAD
- Erasing, moving, copying, scaling, and rotating objects
- Using grips for better editing

## Managing Object Properties

- Adding windows
- Organising drawing geometry using layers
- Working with different linetypes
- Options for changing object properties

## Basic Drawing Techniques

- Using AutoCAD to make objects parallel, longer, repeat, or symmetrical
- Trim unwanted segments, round object corners Creating orthographic views

## Saving Time with Blocks

Draw something once and use it many times over

Using a library of drawing components

Using components from other drawings

## Drawing Annotation

Use single and multiline text

Learning dimension techniques

Dimensioning angles, arcs and circles

Quick dimensions

## Working with Layouts

Creating sheets for plotting

Using viewports

Setting layouts to plot to scale

## Improving Drawing Appearance

How to use hatch patterns to represent different parts or materials

## Getting Your Drawings Out

Plotting options, controlling plotting scale

## About SquareOne

SquareOne is among the UK's leading providers of IT training to businesses of all shapes and sizes. Our company pledge is to deliver inspiring, motivational and cost effective training which brings about tangible improvements in productivity. Through our training courses, individuals are able to gain lifelong skills and realize their full potential while clients achieve their corporate goals.

## Course Objectives

This course is designed for new users of AutoCAD or AutoCAD Light. No previous CAD experience is necessary, although drafting, design or engineering experience would be an advantage. During this course you will learn the features, commands and techniques for creating, editing, dimensioning, annotating and printing accurate AutoCAD drawings via face to face teaching and hands-on exercises.

## Course Details

Duration: 3 Days

Timings: 09:30 - 16:30

## Course Contents

The subjects listed on the left are an outline. If there are any additional subjects you wish to cover, please feel free to call us prior to the course.

## Training Locations

Our lead training centre is located in Birkenhead, Merseyside, where we have state of the art training facilities. We also have a number of training venues throughout the North West, covering Chester, Manchester, Liverpool, North Wales, Lancashire and Staffordshire.

Alternatively, we can come to your business bringing with us our mobile IT classroom. We can deliver this kind of training anywhere in the UK and Europe.

## Where We Have Trained

SquareOne have delivered training solutions throughout the UK in locations such as London, Liverpool, Wirral, Blackpool, Manchester, Sussex, Surrey, Hampshire, Edinburgh and Belfast. We have also trained at international locations such as France, Germany, Switzerland, Scandinavia and USA.

Training has been delivered to a diverse range of industries including oil and gas, agriculture, automobile manufacture, food production, the arts and finance.

## Reviews

### **BOOKING**

To discuss course contents and booking arrangements, please call SquareOne on:

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