

Course Description

The Civil Survey Solutions AutoCAD Fundamentals course teaches you everything you need to know to become quickly productive with the software. Learn to draw in 2D, shape complex curves, manage objects with layers, organize with blocks and groups, add dimensions and annotation, work with layouts, model in 3D, create realistic renderings and much more.

Whether you're an aspiring CAD/CAM professional, preparing for certification, or updating your skills, this is the fast, thorough grounding you need in AutoCAD.

Course Duration:	2 Days
Delivery:	Instructor led - maximum 6 participants
Course Times:	9:00 am - 5:00 pm
Software Used:	AutoCAD
Registration:	<u>Register your interest here!</u>

Prerequisites

Prior to attending this course you should have:

- A good working knowledge of basic design and terminology

Upon completion you will be issued with a **Civil Survey Solutions Certificate of Training.**

Course Objectives

- AutoCAD interface
 - Workspaces
 - Keyboard shortcuts
 - User interface layout
 - Shortcut menu's
 - Options
- Working with files
 - DWT (drawing templates)
 - Setting the default drawing template
 - DWG (drawing files)
 - Save (autosave time)
 - Open
- Displaying object
 - Display tools
 - Pan
 - Zoom
 - Zoom commands
 - Wheel mouse features (mbuttonpan=1)
 - Zoom and pan in drawings
- Creating basic drawings
 - Units (UN in command line)
 - Line bearing and distance (starting from a known coordinate)
 - Osnapes (object snap)
 - List/F2
 - Function keys (F1, F2, F3, F8)
 - Inquiry commands
 - Circle
 - Arc
 - Erase
 - Undo-redo
 - Polyline (explode/join)
 - Polyedit
 - Rectangle
 - Offset
 - Points—divide, measure, point style
 - Grips

Topics Covered

- Modifying objects
 - Copy
 - Mirror
 - Array
 - Move
 - Rotate
 - Scale
 - Stretch
 - Lengthen
 - Trim
 - Extend
 - Break
 - Chamfer
 - Fillet
 - Explode
 - Match properties
 - Hatchings draw order
 - Revision cloud
 - Bpoly (boundary poly)
- File
 - Importing other data—metafile, ACIS, 3D studio, V8 DGN
 - Plotting
 - Layout tabs—paperspace
 - E-transmit
 - Copy between drawings
 - Paste to original coordinates
- Insert
 - Blocks
 - DWG refs / DWF / DGN / Raster
 - Xrefs
- View
 - Viewports
 - Display UCS icon
- Layer manager
 - Layers
 - Layer state manager
 - Layer tools
 - Linetypes
 - Lineweights
- Text
 - Text styles
 - Single line text
 - Multi line text
 - Annotative text