

## Overview

### Course Objective

This course is intended to introduce existing AutoCAD Users to the advanced options available in AutoCAD 2009.

### Duration

1 – 2 days

### Who Should Attend

Users who have used AutoCAD and want to get the best of the advanced features out of the new version of AutoCAD and need to have a better understanding of the new features and enhanced commands.

### Pre-Requisites

User must be familiar with previous versions of AutoCAD.

### Learning Outcomes

By the end of the module students are expected to:

- Create a template drawing with various layer, line weights and plotting styles.
- Produce assembly drawings which are 'X' referenced to a number of part component drawings which when altered will automatically update the assembly drawing.
- Use Object Filters for quick selection and changing properties of drawing components.
- Use Design Centre for enhancing drawing productivity by dragging Block, Layers, Line styles, Dimension styles,
- Hatch styles from other drawings directly into the existing drawing environment.
- Creating intelligent Blocks with Attributes which can be used in external databases.
- Understand the concepts in 2D Computer Aided Design and productivity tools.
- Use AutoCAD Web features, allowing drawings to be published and viewed on the web; and interactive use of modification of drawing, displaying and sharing of designs over the web.
- The use of the web to access manufacturing drawing components using I-drop technology, dragging pre-drawn components directly from the web into the students drawing for productivity.
- Enable students to use AutoCAD 2009 to create working drawings.
- Create Paper Space with various template drawings, Dimension styles and Blocks inaugurated.
- Provide students with an understanding of the more advanced commands for efficient drawing production.

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### Indicative Syllabus

The module will normally cover techniques for:

- Creating Templates and the modification Profiles to improve the drawing environment.
- The use of Design Centre to access drawing libraries and extracting Blocks, Dimension styles, Hatch styles, Layers and Line types directly into a new drawing to enhance productivity.
- Saving a drawing as a template file, Profile and various drawing formats, DXF, DWG, DWF and DWT.
- Setting up procedures for plotting of scale drawings.
- Use of paper space, model space and scale view ports.
- Editing drawings with Object Filters and Match properties.
- Productivity drawing tools, Object Tracking, Object Snap commands.
- Plot Styles and Dimension Styles, QDIM, QLEADER, DIM NEWTXT.
- The use of MTEXT and importing text from a Word document directly into the drawing.
- Cutting and pasting drawing components between multiple opened drawings.
- Use of Xreference in creating drawing assemblies from sub-component drawings.
- Partial load, purge command to reduce working drawing size.
- Publishing of drawings to Web within AutoCAD drawing environment.
- Access of manufacturing pre-drawn components via the web and use of IDROP technology to drag these drawings from the web directly into a new drawing.
- Editing complex entities and creating blocks.
- Creating layouts using Paper Space and Model Space.