

## **AutoCAD 2008 Level 1 - Training for the Professional**

**Prerequisite:** Working knowledge of Microsoft Windows

**Length:** 40 Hours

### **Course Description:**

The objective of *AutoCAD 2008 Fundamentals* is to enable students to create a basic 2D drawing in AutoCAD. Learning to use AutoCAD is therefore not a trivial undertaking. To make the process easier and provide flexibility for instructors and students, the class is divided into two parts that may be taken independently.

*Fundamentals, Part 1* (three days) covers the indispensable core topics for working with AutoCAD. The teaching strategy is to start with a few basic tools that will let the student create and edit a simple drawing. We then continue to develop those tools, as well as introducing more advanced tools throughout the course. Not every command or option is covered, because the intent is to show the most *essential* tools and concepts:

- Understanding the AutoCAD workspace and user interface
- Using basic drawing, editing, and viewing tools
- Organizing drawing objects on layers
- Inserting reusable symbols (blocks)
- Preparing a layout to be plotted
- Adding text, hatching, and dimensions

*Fundamentals, Part 2* (two days) continues with more sophisticated techniques that will extend the user's mastery of the program. For example, here we go beyond the basic skill of *inserting* a block to learn how to *create* blocks, and beyond the basic skill of *using* a template to understand the process of *setting up* a template.

- Using more advanced editing and construction techniques
- Creating local and global blocks
- Setting up layers, styles, and templates
- Working with advanced layout and plotting tools

## **AutoCAD 2008 Level 2 - Training for the Professional**

**Prerequisite:** AutoCAD Professional Level 1, or equivalent experience

**Length:** 32 Hours

### **Course Description:**

This course is suitable for students comfortable with the basics of creating an AutoCAD drawing, as taught in AutoCAD 2008 Fundamentals. It focuses on using advanced annotation, drawing with complex objects (including polylines, regions, and advanced text objects), defining blocks and attributes, using external reference files and image files, using layouts and advanced plotting features, creating sheet sets, and enhancing productivity with simple customization.

Topics include:

- Advanced annotation
- Advanced blocks and attributes
- Referencing and sharing information
- Sheet sets
- Layouts and plotting
- CAD management
- Introduction to customization

## **AutoCAD 2008 – Update from 2007/2006 2D Users**

**Prerequisite:** Working knowledge of AutoCAD 2007 or 2006

**Length:** 8 Hours

### **Course Description:**

This course introduces AutoCAD 2008's new features to those using the two dimensional drawing methods in AutoCAD 2007/2006. The primary method of selecting command tools is now the Dashboard, which provides easy access to the most commonly used tools and can be customized to suit a variety of preferences. There is a new 2D Drafting and Annotation Workspace, changes and enhancements to Customization, References, Tables, and Plotting and Recovery, and for those working with MicroStation DGN files, there are new DGN importing and exporting tools. Layer updates include changes to the Layer Properties Manager and enhancements to Layer States. Annotative objects and styles are another major new feature to AutoCAD 2008. Annotative objects can include Text, Mtext, Hatches, Blocks, Attributes, Dimensions, Leaders, Multileaders, and Tolerances.

### **Course Content:**

- Changes to the Interface
- Updates for Tool Palettes and Blocks
- Updates and Layouts
- Plotting and Recovery Updates
- Layer Properties Manager, Layer States, and Layer Tools Updates
- Annotation Enhancements
- Table Updates
- External References Updates
- Importing and Exporting DGN Files (Optional)
- Customizing the Interface

## **Inventor 2008 Level 1**

**Prerequisite:** Working knowledge of CAD

**Length:** 40 Hours

### **Course Description:**

This course instructs users in best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. Users acquire the knowledge needed to complete the process of designing models from conceptual sketching, through to solid modeling, assembly design, and drawing production.

### **Course Content:**

- The Inventor Interface
- Creating 2D sketches
- Constraining and dimensioning sketches
- Generating 3D parts from sketches
- Part modeling, adding and editing 3D features
- Resolving feature failures
- Placing and constraining parts in assemblies
- Assembly tools
- Model Information
- Presentation files (Exploded views)
- Weldments
- Creating drawings and views
- Annotationing drawings
- Customizing Inventor
- Establishing and working with model relationships
- Working with projects
- Emboss and decals