

## **ATC Training: Mastering AutoCAD/AutoCAD LT 2011**

### **Course Description**

To provide new AutoCAD users an understanding of the software's core functionality and features so that they can create, edit, and organize their first drawing. Users will have a solid grounding in the software so that they can immediately be productive using AutoCAD.

### **Course Objectives**

The primary objectives of this courseware are to teach users the basic commands necessary for professional 2D drawing, design, and drafting using AutoCAD and AutoCAD LT.

After completing this class, users will 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.
- Present drawings in a detailed and visually impressive way.

### **Who Should Attend**

New AutoCAD 2011 users or other Autodesk software users who want to learn the core features and functionality of AutoCAD or AutoCAD LT.

### **Prerequisites**

It is recommended that delegates have a working knowledge of:

- Architectural design, drafting, or engineering experience is recommended. No previous CAD experience is necessary.
- Microsoft® Windows® Vista, Microsoft® Windows® XP or Microsoft® Windows® 2000.

**Note:** *The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.*

**Course Code: EM0615\_ACAD2011ES**

**Course Duration: 3 days**

*File Name: TRN\_AIT\_ATC\_ACAD2011\_Mastering\_250111\_dg\_v1.doc*

*Date: 26 January 2011*

## **ATC Training: Mastering AutoCAD/AutoCAD LT 2011 .....Continued**

### **Course Outline**

#### **Learning Basic Commands to Get Started**

- Introducing the AutoCAD Application Window
- Working in the Command Window
- Using the Line Command
- Drawing the Shape
- Completing the Shape

#### **Setting Up a Drawing**

- Setting Up the Drawing Units
- Setting Up the Drawing Size
- Drawing with Grid and Snap
- Saving Your Work
- A Summary of AutoCAD's Units

#### **Developing Drawing Strategies**

- Laying Out the Walls
- Creating Doors
- Drawing the Thresholds
- Drawing the Decks and Stairs
- Laying Out the Kitchen
- Constructing the Bathroom

#### **Working with Hatches, Gradients, and Tool Palettes**

- Hatching the South Elevation
- Using Hatches in the Floor Plan
- Modifying the Shape of Hatch Patterns
- Creating and Managing Tool Palettes

#### **Dimensioning a Drawing**

- Introducing Dimension Styles
- Placing Dimensions on the Drawing
- Using Other Types of Dimensions
- Modifying Dimensions

#### **Managing External References**

- Drawing a Site Plan
- Setting Up an External Reference
- Modifying an Xref Drawing
- Putting Xrefs to Use
- Exploring Additional Xref Features
- Exploring Further on Your Own

#### **Using Layouts to Set Up a Print**

- Preparing the Title Block
- Setting Up a Sheet Template
- Creating your first Plan Sheet
- Using Sheet Set Manager
- Setting Up Layouts
- Adjusting a Viewport's Contents

#### **Printing an AutoCAD Drawing**

- Using the Plot Dialog Box
- Applying Plot Style Tables
- Printing a Drawing
- Viewing Plots in Design Review
- Printing a Drawing Using Layouts
- Summing Up

#### **Creating 3D Geometry**

- Modeling in 3D
- Creating the Floor, Foundation, and Thresholds
- Getting Further Directions in 3D

#### **Rendering and Materials**

- Creating Cameras to Reproduce Views
- Creating a Lighting Scheme
- Adding Materials

### **AIT Spatial Workshops**

As an alternative to the standard ATC Essentials course, we are also able to provide an AutoCAD 2011 Workshop covering a selection of those topics listed above. If you are interested in undertaking an AutoCAD 2011 Workshop, please contact us and we can discuss your bespoke requirements. You may also wish to incorporate items from two, maybe three different course outlines. We can accommodate this easily with a bespoke workshop customised to your needs.