



## **AutoCAD / AutoCAD LT 2012 Essentials Course Outline**

**Course Description:** This course is designed for the new user who needs to know the essential commands necessary for professional 2D drawing, design, and drafting using AutoCAD/AutoCAD LT. No previous CAD experience required but it is recommended that you have working knowledge of Microsoft Windows 7. Drafting experience is a plus.

### **Topics**

#### **1. Getting Started with AutoCAD**

Starting AutoCAD  
AutoCAD's User Interface  
Working with Commands  
AutoCAD's Cartesian Workspace  
Opening and Existing Drawing File  
Viewing Your Drawing  
Saving Your Work

#### **2. Basic Drawing & Editing Commands**

Drawing Lines  
Erasing Objects  
Drawing Lines with Polar Tracking  
Drawing Rectangles  
Drawing Circles  
Undo and Redo Actions

#### **3. Projects- Creating a Simple Drawing**

Create a Simple Drawing  
Create Simple Shapes

#### **4. Drawing Precision in AutoCAD**

Using Running Object Snaps  
Using Object Snap Overrides  
Polar Tracking at Angles  
Object Snap Tracking  
Drawing with Snap and Grid

#### **5. making Changes in Your Drawing**

Selecting Objects for Editing  
Moving Objects  
Copying Objects  
Rotating Objects  
Scaling Objects  
Mirroring Objects  
Editing with Grips

#### **6. Projects- Making Your Drawings More Precise**

Schematic Project: Electronics Diagram  
Architectural Project: Landscape  
Mechanical Project (with Polar & Tracking)  
Mechanical Project: Surge Protector  
Mechanical Project: Satellite

#### **7. Organizing your Drawing with Layers**

Creating New Drawings with Templates  
What are Layers?  
Layer States  
Changing an Object's Layer

#### **8. Advanced Object Type**

Drawing Arcs  
Drawing Polylines  
Editing Polylines  
Drawing Polygons  
Drawing Ellipses

#### **9. Getting Information from Your Drawing**

Working with object Properties  
Measuring Objects

#### **10. Drawing Organization & Information**

Architectural Project  
Mechanical Project  
Civil Project

#### **11. Advanced Editing Commands**

Trimming and Extending Objects  
Sketching Objects  
Creating Fillets and Chamfers  
Offsetting Objects  
Creating Arrays of Objects

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## 12. Inserting Blocks

What are Blocks?  
Inserting Blocks  
Working with Dynamic Blocks  
Inserting Blocks with DesignCenter  
Inserting Blocks with Content Explorer

## 13. Projects- Creating More Complex Objects

Mechanical Project 1- Plate  
Mechanical Project 2- Gasket  
Mechanical Project 3- Plate  
Mechanical Project 4- Rocker Arm  
Architectural Project 1- Floor Plan  
Architectural Project 2- Floor Plan  
Civil Project- Parking Lot

## 14. Setting Up a Layout

Printing Concepts  
Working in Layouts  
Copying Layouts  
Creating Viewports  
Guidelines for Layouts

## 15. Printing Your Drawing

Printing Layouts  
Printing from the Model Tab

## 16. Projects- Preparing to Print

Mechanical Project  
Architectural Project

## 17. Text

Working with Annotations  
Adding Text in a Drawing  
Modifying Multiline Text  
Formatting Multiline Text  
Adding Notes with Leaders to Your Drawing  
Creating Tables  
Modifying Tables

## 18. Hatching

Hatching  
Editing Hatches

## 19. Adding Dimensions

Dimensioning Concepts  
Adding Linear Dimensions  
Adding Radial & Angular Dimensions  
Editing Dimensions

## 20. Projects- Annotating Your Drawing

Mechanical Project  
Architectural Project 1  
Architectural Project 2  
Civil Project

**Duration:** 4 Days

**Classroom Tuition:**

\$1,000.00/student

*Group rates are available*

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