



## **AutoCAD Mechanical 2011 Essentials**

**Course Description:** This hands-on foundation course covers the basic AutoCAD Mechanical features. You will learn about the basic features of the AutoCAD Mechanical Drawing, Editing and Dimension tools. This is an instructor-led course and places a heavy emphasis on the use of hands-on exercises.

**Prerequisites:** This course is designed for users new to AutoCAD Mechanical. It is recommended you have:

- A background in mechanical design. Drafting and design experience is recommended.
- A working knowledge of AutoCAD (AutoCAD Level 1 Training or equivalent industry experience)
- A working knowledge of MS Windows®

### **Topics:**

#### **1. Getting Started**

Interacting with the Interface  
Common Drawing Setup

#### **2. Object Property and Layer Management**

Property Management  
Layer Control

#### **3. Organizing Drawing Geometry**

Drawing Creation Workflows and Organization  
Structuring Data in Drawings  
Reusing and editing  
Structured Data

#### **4. Tools for Creating Key Geometry**

Core Design Tools  
Power Snaps  
Centerlines  
Construction Lines  
Designing with Lines  
Adding Standard Feature Data for Holes and Slots

#### **5. Tools for Manipulating Geometry**

Editing Tools  
Power Commands  
Associative Hide

#### **6. Mechanical Part Generators**

Standard Parts  
Chain/Belt  
Shaft Generator  
Springs  
Standard Shaft Parts

#### **7. Creating Drawing Sheets**

Model Space Views in Layouts  
Creating Drawing Sheets in Model Space  
Annotation Views When Using Structure  
Title Blocks and Drawing Borders

#### **8. Dimensioning and Annotating Your Drawings**

Annotating and Annotations  
Symbols  
Creating Dimensions  
Editing Dimensions

Hole Charts and Fit Lists  
Revision Lists

#### **9. Bill of Materials, Parts Lists, & Balloons**

Part References  
Bill of Materials  
Inserting Parts Lists  
Ballooning Parts

#### **10. Design Calculations**

Design Calculations

#### **11. Leveraging your Existing Data**

DWG Files  
IGES Files  
Inventor Link

#### **12. Mechanical Options for the CAD Manager**

Standard Based Design  
Configure Layer, Text, and Object Properties  
Configure the Annotation Tools  
Configure Component Properties, BOM, Parts List, and Balloons

**Duration:** 4 Days

**Classroom Tuition:**  
\$1,100.00/student

*Group rates are available*

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