

## Autodesk Inventor LT 2012 Fundamentals

### Course Objectives

The Inventor LT 2012 Fundamentals training guide instructs students in the best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. Students acquire the knowledge needed to complete the process of designing models from conceptual sketching, through to solid modeling, and drawing production.

### Who Should Attend / Prerequisites

As an introductory training guide, Inventor LT 2012 Fundamentals does not assume prior knowledge of any 3D modeling or CAD. Users should have a working knowledge of the following:

- Drafting, design, or engineering principles.
- Microsoft® Windows® 7, Microsoft® Windows® Vista or Microsoft® Windows® XP.

### Course Outline

#### **Introduction to Inventor LT**

- Inventor LT Fundamentals
- The Inventor LT Interface
- Model Manipulation

#### **Creating the Base Feature**

- Solid Base Features

#### **Sketching Geometry**

- Sketch Geometry

#### **Additional Sketching Tools**

- Advanced Editing Tools
- Using Existing Geometry
- Over-Dimensioned Sketches
- Sketch Preferences

#### **Sketched Secondary Features**

- Extruded Secondary Features
- Revolved Secondary Features
- Editing Sketched Secondary Features
- 3D Grip Modification

#### **Creating Pick and Place Features**

- Edge Chamfer
- Constant Fillets
- Variable Fillets
- Face Fillets
- Full Round Fillets
- Straight Holes
- Threads
- Editing Pick and Place Features
- Creation Sequence

#### **Work Features**

- Work Planes
- Work Axes

- Work Points

#### **Equations**

- Equations
- Parameters

#### **Additional Features**

- Face Draft
- Splitting a Face or Part
- Shells
- Ribs
- Bend Part

#### **Model and Display Manipulation**

- Reordering Features
- Inserting Features
- Suppressing Features
- Section Views
- Design Views

#### **Fixing Problems**

- Sketch Failure
- Feature Failure

#### **Sweep Features**

- Sweep Features

#### **Loft Features**

- Rail Lofts
- Center Line Lofts
- Advanced Loft Options

#### **Duplication Tools**

- Rectangular Sketch Patterns
- Circular Sketch Patterns
- Rectangular Feature Patterns
- Circular Feature Patterns
- Mirror Parts or Features

- Manipulate Patterns and Mirror Features

#### **Feature Relationships**

- Establishing Relationships
- Controlling Relationships
- Investigating Relationships
- Changing Relationships

#### **Model Information**

- Measurement Tools
- Model Properties
- Changing Part Units

#### **Drawing Basics**

- New Drawing Views
- Manipulating Views

#### **Detailing Drawings**

- Dimensions
- Styles and Standards
- Hatching

#### **Drawing Annotations**

- Text
- Symbols
- Hole and Thread Notes
- Chamfer Notes
- Center Marks and Center Lines
- Hole Tables
- Revision Tables and Tags

#### **Customizing Inventor LT**

- Application Options
- Document Settings
- File Properties
- Productivity Tips

**Course Duration:** 4 Days (28 Hours)

**Tuition:** \$1300.00 / Student