



# **Computer Aided Design using Autodesk Inventor**

## **(Duration: 80 Hrs)**

### **Course Curriculum**

#### **Chapter 1: Introduction to Autodesk Inventor**

- Introduction
- Autodesk Inventor Fundamentals: Feature Based Modeling, Parametric Features
- Getting Started
- Autodesk Inventor Interface
- Model Manipulation

#### **Chapter 2: Creating the Base Feature**

- Creating a New Part File
- Sketched Base Features
- Editing Sketched Features
- Workshops

#### **Chapter 3: Additional Sketching Tools**

- Additional Entity Types
- Basic Editing Tools
- Additional Constraint Tools
- Additional Dimension Tools
- Advanced Editing Tools: Move, Copy, Rotate, Scale and Stretch
- Rectangular / Circular Sketch Patterns
- Using Existing Geometry
- Workshops

#### **Chapter 4: Creating Features / Equations**

- Chamfers, Fillets and Threads
- Work Features
- Equations
- Additional Features
- Sweep Features
- Model and Display Manipulation
- Loft Features
- Feature Relationships

### **Chapter 5: Assembly Environment**

- Assembly components using Constraints
- Joint Connections
- Manipulating Assembly Display
- Assembly Tools
- Assembly Parts and Features
- Bill of Materials
- Working with Projects

### **Chapter 6: Drawing Basics**

- Creating new Drawing
- Views
- Manipulating Views
- Detailing Drawings
- Annotations
- Workshops

### **Chapter 7: Sheet Metal Modeling**

- Sheet Metal Concepts
- Sheet Metal Terminology
- Sheet Metal Environment
- Sheet Metal Base Features
- Flanges
- Bending Sheet Metal
- Sheet Metal Cuts
- Corner Seams
- Unfold and Refold
- Workshops

### **Chapter 8: Surfacing**

- Introduction to Surfacing: Basic, Patch, Ruled, Stitch, Sculpting
- Additional Surfacing Options: Extend, Trim, Replace face with Surface, Delete and Copy Surface
- Freeform Modeling
- Analyzing Model
- Workshops

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