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Autodesk Inventor 2012 Advanced Part Modeling

Course Objectives

The goal of this course is to build on the skills acquired in *Inventor 2012 Introduction to Solid Modeling* by taking students to a higher level of productivity when designing part models in Inventor.

Who Should Attend / Prerequisites

The class assumes a mastery of Inventor basics as taught in *Inventor 2012 Introduction to Solid Modeling*. Users should have a working knowledge of the following:

- Creating and editing parts, using work features, and creating and annotating drawing views.
- Microsoft® Windows® 7, Microsoft® Windows® Vista or Microsoft® Windows® XP.

Course Outline

Tips & Tools
- Design Philosophies
- Sketching Tips
- Modeling Tips
- Appearance Options
- Color Styles

Multi-Body Part Modeling
- Multi-Body Part Modeling

Sketching Tools
- Splines
- 3D Sketches

Advanced Work Features
- Grounded Work Points
- User Coordinate Systems

Advanced Lofts, Sweeps and Coils
- Area Lofts
- Advanced Loft Options
- Advanced Sweeps
- Coils

Part Design using iLogic
- Introduction to iLogic
- iLogic Functions
- Creating Parts Using iLogic

Analyzing a Model
- Analysis Types
- Analysis Procedures

Introduction to Surfacing
- Introduction to Surfaces
- Basic Surfaces
- Patch Surfaces
- Stitch Surfaces
- Sculpting with Surfaces
- Thickening & Offsetting a Surface
- Surfaces in Drawing Views

Additional Surfacing Options
- Extend and Trim Surfaces
- Replace Face with a Surface
- Delete Faces
- Copy Surface

Importing Surfaces
- Importing Surfaces
- Repairing Imported Surfaces
- Construction Environment

Copying Between Parts (iFeatures)
- Creating iFeatures
- Inserting iFeatures
- iFeatures vs. Copy Feature
- Table-Driven iFeatures
- Editing iFeatures

iParts
- iPart Creation
- iPart Placement
- Editing an iPart Factory
- Creating iFeatures from a Table-Driven iPart
- Tables for Factory Members

Translation
- Import and Export Data
- Importing Data Formats
- Importing Solids

Course Duration: 2 Days (14 Hours) **Tuition:** $650.00 / Student