

# Autodesk Inventor Advanced Part Modelling

## Course Description

This course builds on the skills acquired on the Autodesk Inventor Introduction to Solid Modelling training by taking you to a higher level of productivity when designing part models in Inventor. You will learn advanced part modelling techniques including multi-body design, advanced lofts, advanced sweeps, coils, and surface modelling. The course also covers features aimed at increasing efficiency: iFeatures for frequently needed design elements, iParts for similar designs, iLogic for automating designs, translation options for importing data, and the Engineer's Notebook for communication.



## Prerequisites

The course assumes a mastery of Autodesk Inventor basics as taught in Autodesk Inventor Introduction to Solid Modelling. Students should know how to create and edit parts, use work features, and create and annotate drawing views, etc.



## Topics Include

- ❖ Advanced model appearance options
- ❖ 2D and 3D sketching techniques
- ❖ Multi-body part modelling
- ❖ Advanced geometry creation tools (work features, area lofts, sweeps, and coils)
- ❖ Analysis tools
- ❖ Generative shape design using Shape Generator
- ❖ Creating and editing basic surfaces, importing surfaces, and surface repair tools
- ❖ iFeatures and iParts
- ❖ Importing data from other CAD systems and making edits
- ❖ Working with AutoCAD DWG files
- ❖ Freeform Modelling
- ❖ Emboss and Decal Features
- ❖ Advanced Drawing tools (iPart tables, surfaces in drawing views, and custom sketched symbols)

Course Duration: 2 Days

Next Step: Advanced Assembly Modelling