

## Autodesk Inventor Advanced Assembly Modelling

This course builds on the skills acquired in the Autodesk Inventor Introduction to Solid Modelling and Autodesk Inventor Advanced Part Modelling training courses. This course will enable you to be more productive, going beyond simple part design, to creating and working with assemblies in Autodesk Inventor. The course introduces advanced features for constraining models, making associative links, using design accelerators and introducing rendering models.

### Course Modules

- *Applying Motion to Existing Assembly Constraints*
- *Introduction of the Top-Down Design Technique*
- *Tools for Top-Down Design, such as Associative Links, Adaptive Parts, Multi-Body and Layout Design*
- *Creating Positional Representation to Review Motion, Evaluate the Position of Assembly Components, or Document an Assembly in a Drawing*
- *Using Shrinkwrap and other Model Simplification Tools to Create a Part Model that Represents an Overall Assembly*
- *Creating Level of Detail Representations to Reduce the Clutter of Large Assemblies, Reduce Retrieval Times, and Substituting Models*
- *Using Design Accelerator to easily insert Standard and Customisable Components and Features into Models*
- *Creating Rendered Realistic Images and Animations of Parts and Assemblies*
- *Using iMates and iAssemblies to work with Assemblies*
- *Duplicating Components in an Assembly*
- *Using the Frame Generator to Create Structural Members*
- *Working with Weldments*
- *Link and Drive Parameters to and from a Spreadsheet*

### Prerequisites

The class assumes a mastery of Inventor basics as taught on Inventor Introduction to Solid Modelling and Inventor Advanced. An understanding of Part Modelling is recommended.

### Course Duration

3 days

### Next Steps

Autodesk Inventor Dynamic Simulation