



PREREQUISITES

For online training, students should have access to a machine with Inventor installed and activated. Having a dual monitor setup is highly recommended.

INCLUSIONS

4 half days of Online Training and Tuition, Cadgroup Certificate of Completion, and a Inventor Advanced Part Modelling Fundamentals eBook.

CONTACT US

1300 765 654

training@cadgroup.com.au

cadgroup.com.au



AUTODESK® INVENTOR

Advanced Part Modelling

The Autodesk® Inventor Advanced Part Modelling class builds on the skills acquired in the Autodesk® Inventor Introduction to Solid Modelling to take students to a higher level of productivity when working with parts.

In this course, you will consider various approaches to part design. Specific advanced part modelling techniques covered include multi-body modelling, advanced lofts, sweeps and coils. Modules aimed at increasing efficiency include: iFeatures, iParts, and working with imported data. The course also covers some miscellaneous drawing tools such as custom sketch symbols, working with title blocks and borders, and documenting iParts.

COURSE OUTLINE

- **Advanced Model Appearance Options:**
Setting visual styles; creating materials and appearances.
- **2D and 3D Sketching Techniques:**
2D and 3D sketching tips; using advanced sketch tools; using the sketch doctor.
- **Multi-body Part Modelling:**
Creating multi-body parts; using part features on multi-body components.
- **Advanced Geometry Creation Tools (work features, area lofts, sweeps, and coils):**
Creating compound work points, axis, planes and UCS; using area lofts; using advanced sweeps.
- **Generative Design:**
Preparing models for generative design; applying constraints, loads and optimisation targets; preserving regions and assigning symmetry; promoting the 3D mesh model.
- **Creating and Editing Basic Surfaces, Importing Surfaces, and Surface Repair Tools:**
Introduction to surface modelling; surface modelling tools and tips; working with imported surfaces.
- **iFeature and iParts:**
Creating iParts and iFeatures; publishing iParts and iFeatures to the content centre.
- **Importing Data from other CAD Systems and Making Edits:**
Using the direct edit tools; working with AutoCAD DWG data.
- **Freeform Modelling:**
Creating free-form modelling bodies; using the freeform modelling manipulation tools.
- **Other Topics:**
Creating emboss and decal features; advanced drawing tools (iPart tables, surfaces in drawing views, and custom sketched symbols); adding notes with the Engineer's Notebook.