

Course title:

Introduction to Building Information Modelling and AutoDesk Revit

Course overview (Three days):

As the UK’s leading Building Information Modelling (BIM) program AutoDesk Revit streamlines the design process with the creation of a centralised 3d constructional model. The course aims to provide a hands-on learning environment for all construction professionals in the creation of a Revit BIM model.

Topics covered to include the following:

- Overview of Building Information Modelling (BIM) and how it is applied in the Autodesk Revit.
- Navigating the Autodesk Revit interface.
- Working with the basic modifying and modelling tools.
- Creation of schedules
- Creation of views within a single model environment
- Creation of drawing sheets
- Exporting information for use within AutoCAD
- Linking and importing CAD and Revit files into a Revit project
- Mass modelling and creation of organic building forms
- Collaboration within multi-user environments
- BIM analysis

Breakdown of six three-hour sessions per course:

| | |
|---|---|
| Session 1.0 - Basic modelling | |
| Session 1.01 – Three hours <ul style="list-style-type: none"> • Introduction to Building Information Modelling –BIM and Revit • User interface • Levels • Grids & Columns • Walls • Doors • Windows | Session 1.02 – Three hours <ul style="list-style-type: none"> • Floors • Stairs • Ceilings • Roofs • Sections • Elevations |
| Personal development <ul style="list-style-type: none"> - <i>Utilising the commands and techniques learnt create a building of your own choice demonstrating the inclusion of all aspects covered in Session 1.0.</i> | |
| Session 2.0 - Extended modelling and outputs | |
| Session 2.01 – Three hours <ul style="list-style-type: none"> • Curtain walling • 3d views • Rendered outputs • Schedules • Families (basic content creation) | Session 2.02 - Three hours <ul style="list-style-type: none"> • Details & Callouts • Linked files • Layouts & Plotting |
| Personal development <ul style="list-style-type: none"> - <i>Utilising the commands and techniques learnt extend the modelling of your building completed following Session 1.0 and create a variety of outputs of the information.</i> | |
| Session 3.0 - Conceptual modelling Collaboration & Analysis | |
| Session 3.01 - Three hours <ul style="list-style-type: none"> • Organic conceptual modelling • Linking to other modelling software | Session 3.02 – Three hours <ul style="list-style-type: none"> • Collaboration • BIM Analysis |
| Personal development <ul style="list-style-type: none"> - <i>Expand your knowledge of BIM and Revit in your own chosen field</i> | |