AUTODESK REVIT TRAINING

Revit Courses

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Revit Architecture Fundamentals 3 Days

COURSE DESCRIPTION

This comprehensive Revit training course covers the essential skills required to use Autodesk Revit to design and share information between BIM project teams. You will learn how to draw and modify Architectural elements in 3D using the toolsets. We will also show you how to extract information and data from the Building Information Model to create schedules and basic take-offs.

COURSE MODULES

- Introduction to BIM and Autodesk Revit
- Basic Sketching and Modify Tools
- Starting an Architectural Project
- Modelling Walls
- Working with Doors and Windows
- Working with Curtain Walls
- Working with Views
- Adding Components
- Modelling Floors
- Modelling Ceilings
- Modelling Roofs
- Modelling Stairs, Railings and Ramps
- Creating Construction Documents
- Annotating Construction Documents
- Adding Tags and Schedules
- Creating Details

OTHER INFORMATION

Prerequisites

An understanding of AEC terminology is recommended. Previous CAD knowledge is beneficial.

Course Duration

3 Days

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BIM Fundamentals

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Revit Structure Fundamentals 3 Days

COURSE DESCRIPTION

This comprehensive course covers the essential skills required to use Autodesk Revit, the leading Building Information Modelling (BIM) tool used to design, document, visualise, collaborate and simulate projects, between BIM project teams. You will learn how to draw and modify structural elements in 3D using the Autodesk Revit toolsets. We will show you how to extract information and data from the Building Information Model to create schedules and basic take-offs.

COURSE MODULES

- Introduction to BIM
- Introduction to Autodesk Revit
- Basic Sketching Tools
- Basic Modify Tools
- Structural Framing
- Starting Structural Projects
- Structural Grids
- Structural Columns
- Foundations
- Working with Views
- Adding Structural Slabs
- Structural Reinforcement
- Structural Analysis
- Creating Construction Documents
- Annotating Construction Documents

OTHER INFORMATION

Prerequisites

Understanding of Structural terminology is recommended. Previous CAD knowledge would be beneficial.

Course Duration

3 Days

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BIM Fundamentals

Revit MEP Fundamentals **3 Days**

COURSE DESCRIPTION

Autodesk Revit is the leading Building Information Modelling (BIM) tool used to design, document, visualise, collaborate and simulate projects for building services engineers. Revit's BIM capability is used to streamline the design and analysis process and improve collaboration among project teams. You'll learn how to draw and modify Mechanical, Electrical and Plumbing elements in 3D using the toolsets. We will show you how to extract information from the Building Information Model to create schedules and basic take-offs. Sheet publication is covered in detail to ensure you can take your 3D models and use them to develop 2D published sheets or drawings.

COURSE MODULES

- Introduction to BIM
- Introduction to Autodesk Revit
- Basic Sketching Tools
- Basic Modify Tools
- Starting System Projects
- Working with Views
- Setting up Spaces
- Heating and Cooling Loads Analysis
- Basic System Tools
- HVAC Networks
- Plumbing Networks
- Electrical Systems
- Creating Construction Documents
- Annotating Construction Documents
- Adding Tags and Schedules

OTHER INFORMATION

Prerequisites

Understanding of MEP terminology is recommended. Previous CAD knowledge would be beneficial.

Course Duration

3 Days

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Revit Family and Template Creation **2 Days**

COURSE DESCRIPTION

This Revit course will teach you how to create your own family components for use with Autodesk Revit. During this course you will learn how to model and add metadata to your components and appreciate how to align them to UK BIM Standards.

COURSE MODULES

- Introduction and Principles of BIM
- Introduction to Revit Families
- Basic Principles of Revit Family Editing
- Geometry Formation
- Ten Rules of Family Creation
- Creating your First Revit Family
- Working with more Complex Families
- Working with Hosted Families
- Handling Level of Information
- Parameters and Formulas
- Creating your own BIM Ready Families
- Model Organisation and CAD Standards
- Creating a BIM Ready Revit Template

OTHER INFORMATION

Prerequisites

You should be comfortable with the fundamentals of Autodesk Revit.

Course Duration

2 Days

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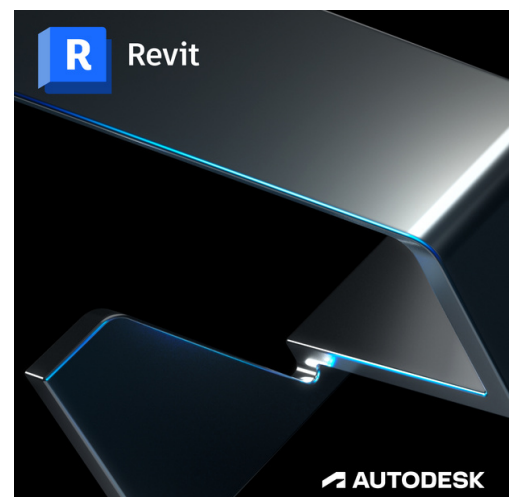# Revit Collaboration Tools **1 Day**

COURSE DESCRIPTION

Autodesk Revit is a Building Information Modelling tool used by multiple disciplines within the construction industry. During a project many individual designers and organisations can be working on the design of the buildings, making collaboration and coordination the utmost importance. Our course will enable delegates to increase their productivity whilst working with other individuals on a project, whether in the same or different organisations. This is a multi-disciplines course with practices for Architecture, MEP and Structural sectors.

COURSE MODULES

- Set up Project Phasing
- Create and Display a Variety of Design Options
- Use Groups
- Link Autodesk Revit Files
- Use Multi-Discipline Coordination
- Import and Export Vector and Raster Files
- Understand, Use and Setup Worksets

OTHER INFORMATION

Prerequisites

You should be comfortable with the fundamentals of Autodesk Revit.

Course Duration

1 Day

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Revit Conceptual Design and Visualisation **1 Day**

COURSE DESCRIPTION

At the start of a project, it is common practice to think about the area of the overall building footprint or the overall massing of a building. Autodesk Revit gives users access to powerful BIM Modelling tools, for the creating and editing of mass elements that can be formed into multiple shapes. These masses can then be developed into building elements such as walls, roofs and floors to quickly turn a conceptual shape into a developed 3D model of the building. This course enables users who are used to using Autodesk Revit to design their buildings, to expand their knowledge to the toolsets used for Conceptual Design, including massing studies, space planning, visualisation and rendering.

COURSE MODULES

- Create In-Place Conceptual Mass Elements
- Create Building Elements from Madding Studies
- Use Rooms and Areas for Space Planning and Analysis
- Create Perspectives, Sketches, Exploded Views and Solar Studies
- Render Views that include Materials, Lighting and Enhancements

OTHER INFORMATION

Prerequisites

You should be comfortable with the fundamentals of Autodesk Revit.

Course Duration

1 Day

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Revit Site and Structural Design 1 Day

COURSE DESCRIPTION

As well as designing building, architects often need to add site and structural information into their designs. Autodesk Revit comes with a vast array of site tools for creating topography and working with site plans, which is the main focus for this one day course. You will be taught how to use the toolsets to create and modify topography surfaces as well as work with structural elements.

COURSE MODULES

- Create Topographic Surfaces
- Add Property Lines and Building Pads
- Modify Toposurfaces
- Annotate Site Plans and Add Site Components
- Work with Shared Coordinates
- Create Structural Grids and Add Columns
- Add Foundation Walls and Footings
- Add Beams and Beam Systems
- Create Framing Elevations and Add Braces

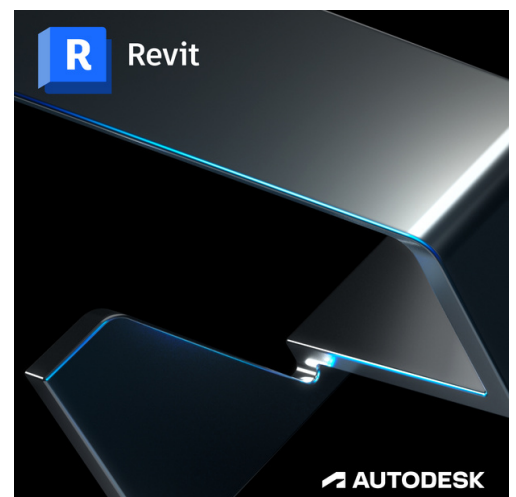## OTHER INFORMATION

Prerequisites

You should be comfortable with the fundamentals of Autodesk Revit.

Course Duration

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CONTACT US

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