Autodesk Revit Facades Training Course

Course Overview

Course Length: 16-Hours

- 16-Hours - 8 x 2-hour training sessions
- Remote training over MS Teams
- Sessions are recorded and download links for each session are provide for future use
- Training for up to 1-3 People
- Sessions can start within 7 days upon ordering
- Flexible sessions (i.e. consecutive or Monday, Wednesday, Friday, etc.)
- Courses are private and topics can be customised to suit
- Includes Certificate of Completion

Topics Covered
This Revit facade design training covers the core tools and methods used to design and document façades in BIM.

- Project setup for façade and cladding models
- Revit curtain wall training: types, grids, mullions and panels
- Stacked walls, layered walls and cladding systems
- Conceptual masses, divided surfaces and pattern-based families
- Adaptive components and parametric facade design Revit techniques
- Materials, appearance and performance parameters
- Tags, schedules, quantities and fabrication data
- Sheets, details and documentation standards
- Coordination, worksharing and model management

Prerequisites
Participants should have completed Revit Essentials or equivalent experience using Autodesk Revit for basic modelling, views and documentation. Familiarity with architectural drawing conventions, building envelopes and construction sequencing is recommended. Prior façade engineering knowledge is helpful but not required. Access to Autodesk Revit and a stable internet connection is needed for remote sessions.

Training Contents

Autodesk Revit Facade Training Course Guide Contents
The course is based on a standard Autodesk Revit training structure, customised for designing and fabricating façades.
Chapter 1: Getting Started with Revit for Facades

- BIM principles for building envelopes
- Revit interface focused on façade tools
- Project templates, units and display settings
- Levels, grids and reference planes for façade setout

Chapter 2: Project Setup and Host Geometry

- Linking architectural and structural models
- Host walls, floors and roofs for cladding
- Worksets and visibility for envelope disciplines
- Best-practice model organisation for façade projects

Chapter 3: Basic Walls and Cladding Layers

- Wall types, layers and material assignments
- Sweeps, reveals and stacked wall systems
- Editing wall profiles and openings
- Cladding build-ups and construction sequencing in the model

Chapter 4: Revit Curtain Wall Fundamentals

- Curtain wall types and system families
- Grid layout, segments and justification
- Mullions, panels and embedded walls
- Exercise: commercial curtain wall elevation

Chapter 5: Advanced Curtain Systems

- Curtain systems on masses and non-planar surfaces
- Custom panel types and corner conditions
- Nested families and shared parameters
- Exercise: multi-storey glazed façade with feature zones

Chapter 6: Conceptual Massing for Facades

- In-place and loadable conceptual masses
- Form creation, voids and surface editing
- Divided surfaces and UV grid control
- Exercise: sculpted envelope concept

Chapter 7: Pattern-Based Panels

- Pattern-based family templates
- Panel geometry, parameters and materials
- Applying patterns to divided surfaces
- Exercise: repeating cladding module

Chapter 8: Adaptive Components and Parametric Facades

- Adaptive points and hosted geometry
- Repeaters and parametric relationships
- Introduction to kinetic and variable panel systems
- Exercise: adaptive sunscreen or feature panel

Chapter 9: Openings, Interfaces and Details

- Doors, windows and façade-mounted openings
- Junctions at slabs, roofs and structure
- 2D and 3D detail components
- Typical façade interface details

Chapter 10: Materials, Parameters and Design Options

- Material libraries for glass, metal and cladding
- Type and instance parameters for fabrication
- Design options for façade alternatives
- Appearance and solar studies for envelope review

Chapter 11: Documentation, Schedules and Fabrication Output

- Elevations, sections and callouts for façades
- Panel, mullion and material schedules
- Tags, legends and sheet composition
- Views and data suitable for fabricators and installers

Chapter 12: Coordination, Quality and Delivery

- Clash awareness with structure and services
- Worksharing and model exchange
- Quality checks, naming and standards
- Handover views, issues and revision control