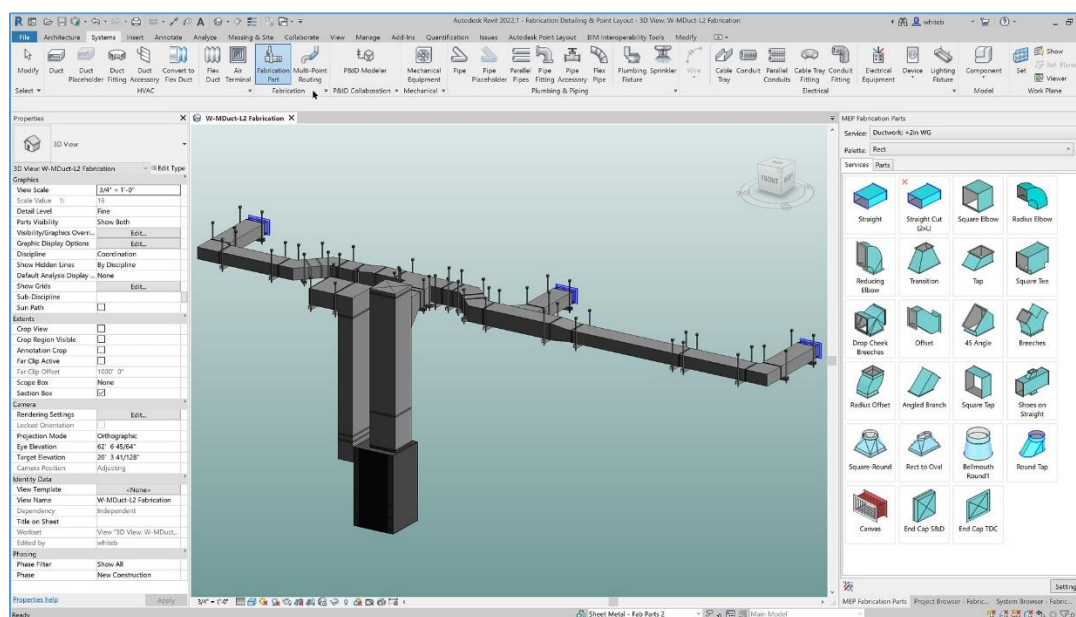




SC202: Autodesk Revit MEP & Revit Architecture

Training Description:

The Autodesk Revit MEP & Revit Architecture comprehensive training course is designed to provide participants with comprehensive knowledge and practical skills in Building Information Modeling using Revit for architectural and MEP design. Revit enables integrated design, coordination and documentation within a single intelligent 3D modeling environment.

This intensive training course covers architectural modeling, mechanical electrical and plumbing systems modeling, project documentation, coordination workflows and BIM best practices. Participants will gain hands-on experience through guided modeling exercises, real project simulations and collaborative coordination tasks.

By the end of the training course, participants will be able to develop architectural models, create MEP systems, generate construction documentation, coordinate multidisciplinary designs and apply BIM workflows in real projects. The training course enhances technical proficiency, design accuracy and project efficiency.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Understand BIM principles and Revit project environment
- ✓ Create architectural elements such as walls floors roofs and families
- ✓ Develop mechanical electrical and plumbing systems within Revit
- ✓ Produce construction documentation including plans sections and schedules
- ✓ Perform clash detection and model coordination
- ✓ Manage project templates work sets and collaboration tools
- ✓ Apply rendering and visualization techniques
- ✓ Improve workflow efficiency and design accuracy
- ✓ Integrate architectural and MEP models in a coordinated BIM environment

Training Designed for:

This training course is designed for architects, MEP engineers, BIM coordinators, draftsmen, project engineers, construction professionals and design consultants who wish to develop or enhance their Revit skills. It is suitable for both beginners and professionals transitioning from CAD to BIM workflows.

Training Requirement:

“Hands on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

INTRODUCTION TO BIM AND REVIT ARCHITECTURE

❖ Building the Foundation

- Overview of Autodesk Revit MEP & Revit Architecture
- Introduction to BIM concepts and workflows
- Revit interface navigation and project setup
- Creating levels grids and basic architectural elements
- Modeling walls floors roofs and doors
- **Practical exercise:** Creating a basic architectural building model

DAY TWO:

ADVANCED ARCHITECTURAL MODELING AND DOCUMENTATION

❖ Developing Detailed Architectural Designs

- Creating families and parametric components
- Stairs railings and curtain wall systems
- Room and area planning
- Generating floor plans elevations and sections
- Creating schedules and quantity takeoffs
- **Workshop:** Producing a complete architectural drawing set

DAY THREE:

INTRODUCTION TO REVIT MEP SYSTEMS

❖ Modeling Mechanical Electrical and Plumbing Systems

- Overview of MEP modeling environment
- Mechanical systems: HVAC ducts equipment and air terminals
- Electrical systems: lighting power circuits panels
- Plumbing systems: piping fixtures and routing
- System connections and basic calculations
- **Practical exercise:** Modeling MEP systems within the architectural model

DAY FOUR:

COORDINATION AND CLASH DETECTION

❖ Integrating Architecture and MEP Models

- Linking architectural and MEP models
- Worksets and collaboration tools
- Clash detection and conflict resolution
- Coordination views and interference checking
- Model optimization and data management
- **Case study:** Coordinating a multidisciplinary BIM project

DAY FIVE:

VISUALIZATION WORKFLOWS AND PROJECT DELIVERY

❖ Completing and Presenting the Project

- Rendering and visualization techniques
- Creating 3D views and walkthroughs
- Exporting models and drawings
- BIM standards and project documentation best practices

- **Final project exercise:** Developing and presenting an integrated architectural and MEP model
- ❖ Course Conclusion
- ❖ POST-ASSESSMENT and EVALUATION

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

Aisha Relative - Training & Career Development Manager

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