mttc
COLLEGE
College Reg. No. L02455

SHORT COURSE

Training Course Outline

REVIT ARCHITECTURE ESSENTIAL

TRAINING COURSE OUTLINE

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COURSE DESCRIPTION

The Revit Architecture Essentials training course is designed to teach you the Revit functionality as you would work with it in the design process. Begin by learning about the user interface and the Revit commands for design development, followed by those available for construction documentation. Since building projects themselves tend to be extremely complex, Revit Architecture is a necessarily a complex program. The objective of the Revit Architecture Essentials training course is to enable students to create full 3D architectural project models and set them up in working drawings. This training course focuses on basic tools that the majority of users need to work with Revit Architecture.

TARGET GROUP

The course aim to user who are currently or planning to work with Architectural, MEP engineers, structural engineers, and Construction Developer Industry

COURSE DURATION

Full Time: 3 Days (10.30am-5.30pm)

LEARNING OUTCOME

By the end of the course, participants should be able to:

- Describe building information modelling methodology and its benefits.
- Set up a project and transfer standards between projects, add and modify levels in project model, create and modify grids.
- Add dimension and spot dimension symbol, work with text and tags.
- Work with detail views, add 3D and 2D elements and detail components

CAREER PATH

3D Modeller, BIM Technician, 3D Visualizer, Project Technical Draughtsperson, 3D Drafter, CAD Designer

COURSE PRE-REQUISITES

- Architectural design, drafting, or engineering experience is recommended.
- A working knowledge of Microsoft® Windows® 7, Microsoft® Windows® Vista, Microsoft® Windows® XP, or Microsoft® Windows® 2000.

CERTIFICATE

MTTC Certificate of Completion will be issued to participants with full attendance record upon completion of training.

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COURSE CONTENT

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DAY 1

Brief Introduction on BIM

- Building Information Modelling (BIM)
- Understanding Revit element hierarchy

Introduction on Revit Architecture

- Introduction to Revit Architecture (File Type and Main Layout)
- Navigating the mouse
- How to start a new project

User Interface

- Application Menu
- Hierarchy of Tabs, Tools, and Panels
- Options Bar
- Project Browser and Properties Palette

Modelling a Project

- Working with Walls
- Manipulate Walls and Temporary Dimensions
- Inserting Doors & Windows
- Edit Height of Walls
- Levels
- Floors
- Ceilings
- Components (Part a)
- Sections

Using Modifying Tools (Part 1)

- Copy
- Move
- Array
- Rotate
- Align
- Offset

DAY 2

Using Modifying Tools (Part 2)

- Mirror
- Split
- Split With Gap
- Trim/ Extend Elements
- Trim/ Extend to Corner

Enhancing the Working Model (Part 1)

- Hide/ Isolate Elements (for View Management)
- Inserting Stairs
- Hierarchy Terminologies
- Dimension lines
- Roofs by Footprint
- Grids
- Columns

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DAY 3

Enhancing the Working Model (Part 2)

- Wall Profiles
- Wall Openings
- Edit Wall Types

Rooms And Areas

- Inserting Rooms
- Room Tags
- Room Colour Fill Legend/ Colour Schemes
- Model Line and Detail Lines

View Displays and Management

- View Tips
- View Range; Change Cut Plane, Change Bottom Plane, View Depth, Cut-able Categories
- Underlay
- Differences between Duplicate, Duplicate with Details and Duplicate with Dependant

Enhancing the Working Model (Part 3)

- Components (Part b)
- Railings

Schedules

- Schedules
- Room Schedules
- Furniture Schedules

Sheets and Plotting

- Create Sheets
- Adding Sheets to the Project
- Rename Sheet
- Modify Project Information
- Place Views on Sheets
- Drag and Drop
- Modify View on Sheets

Custom Components

- Model In Place – Edit Components