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Autodesk® Official Training Guide

Autodesk Revit MEP 2010 Essentials

Description

Learn about building information modeling and the tools for parametric MEP systems design and documentation using Autodesk Revit® MEP 2010. Begin the three-day course by learning the fundamental features of Autodesk Revit MEP, then progressing through schematic design, system analysis and construction documentation, and finishing with design visualization.

This class offers both imperial and metric hands-on exercises representing real-world engineering design scenarios.

Prerequisites

- MEP engineering design, drafting, or engineering experience is highly recommended. No previous CAD experience is necessary.
- A working knowledge of Microsoft® Windows® Vista, Microsoft® Windows® XP, or Microsoft® Windows® 2000.

Class Information

Duration

3 Days

Objective

To teach users the concepts of building information modeling and introduce the tools for parametric engineering design and documentation using Autodesk Revit MEP 2010. Users should be able to complete their first Autodesk Revit MEP project after completing this class.

Who Should Attend

New Autodesk Revit MEP users, users of AutoCAD MEP, or other Autodesk software users who want to learn essential elements of Autodesk Revit MEP.

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Register for This Class Online at:
http://www.ddscad.com/html/revit_mep_ess.html

P: 305.445.6480 F: 305.445.6526
E: sales@ddscad.com

Course Outline

Building Information Modeling
- Building Information Modeling for MEP Engineering

Revit MEP Basics
- Exploring the User Interface
- Working with Revit Elements and Families

Viewing the Model
- Managing Views
- Controlling Object Visibility
- Working with Section and Elevation Views
- Creating and Modifying 3D Views

Starting a New Project
- Setting Up Projects
- Linking Revit Models
- Sharing Projects Using Worksets
- Defining Discipline Settings
- Importing and Editing DWG Details

Defining Volumes
- Creating Soaces
- Creating Zones

Building Performance Analysis
- Building Performance Analysis
- Defining Heat and Cooling Loads
- Calculating Heating and Cooling Loads

HVAC Systems
- Creating HVAC Systems
- Generating HVAC System Layouts
- Creating and Modifying Ductwork

Piping Systems
- Creating System Piping

Plumbing Systems
- Creating Plumbing Systems

Fire Protection Systems
- Creating Fire Protection Systems

Electrical Systems
- Creating Electrical Circuits
- Creating Wiring

Working with Architects and Engineers
- Monitoring Changes in Linked Files
- Checking and Fixing Interference Conditions

Detailing and Drafting
- Creating Callout Views
- Working with Detail Views
- Working with Drafting Views

Annotations and Schedules
- Working with Text and Tags
- Working with Dimensions
- Creating Legends
- Working with Schedules

Construction Documentation
- Working with Titleblocks
- Working with Sheets

The Family Editor (Optional)
- Creating and Modifying Families

Note: The suggested class duration is a guideline. Topics and duration may be modified by the instructor based upon the knowledge and skill level of the class participants.

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