

# outline



**COURSE TITLE: REVIT MEP FUNDAMENTAL**

## **Chapter 1 Introduction to BIM and Autodesk Revit**

- 1.1 BIM and Autodesk Revit
- 1.2 Overview of the Interface
- 1.3 Starting Project
- 1.4 Viewing Commands

## **Chapter 2 Basic Drawing and Modify Tools**

- 2.1 Using general drawing Tools
- 2.2 Inserting components
- 2.3 Selecting and editing elements
- 2.4 Working with basic modify Tools

## **Chapter 3 Starting MEP Projects**

- 3.1 Linking and Importing CAD Files
- 3.2 Linking in Revit Models
- 3.3 Setting up Levels
- 3.4 Copying and Monitoring Elements
- 3.5 Coordination Review

## **Chapter 4 Starting systems project**

- 4.1 Linking in Revit models
- 4.2 Setting up levels
- 4.3 Copying and monitoring elements
- 4.4 Batch copying fixtures
- 4.5 Coordinating linked models

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## **Chapter 5 working with view**

- 5.1 Setting the view display
- 5.2 Duplicating views
- 5.3 Adding callout views
- 5.4 Creating elevations and sections

## **Chapter 6 Space and zones**

- 6.1 Preparing a model for spaces
- 6.2 Adding spaces
- 6.3 Working with spaces
- 6.4 Creating zones
- 6.5 Creating color schemes

## **Chapter 7 Energy Analysis**

- 7.1 Preparing a project for energy analysis
- 7.2 Analysing the heating and cooling loads
- 7.3 Exporting for secondary analysis

## **Chapter 8 HVAC Networks**

- 8.1 Adding mechanical equipment and air terminals
- 8.2 Adding Ducts and pipes
- 8.3 Modifying Ducts and pipes

## **Chapter 9 Plumbing Networks**

- 9.1 Adding plumbing fixtures and equipment
- 9.2 Adding plumbing pipes
- 9.3 Modifying plumbing pipes
- 9.4 Adding Fire protection new works

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## **Chapter 10 Advanced systems for HVAC and Plumbing**

- 10.1 Creating and modifying systems
- 10.2 Creating Automatic layouts
- 10.3 Testing systems

## **Chapter 11 Electrical systems**

- 11.1 About Electrical systems
- 11.2 Placing Electrical components
- 11.3 Creating electrical circuits
- 11.4 Setting up panel schedules
- 11.5 Testing Electrical Layouts

## **Chapter 12 Creating Construction Documents**

- 12.1 Setting up Sheets
- 12.2 Placing and Modifying Views on Sheets
- 12.3 Printing Sheets

## **Chapter 13 Annotating Construction Documents**

- 13.1 Adding Dimension
- 13.2 Working with Text
- 13.3 Drawing details lines and symbols
- 13.4 Creating Legends

## **Chapter 14 Adding tag and schedule**

- 14.1 Adding Tags
- 14.2 Working with Schedules

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## Chapter 15 Creating details

- 15.1 Setting up details views
- 15.2 Adding details components
- 15.3 Annotating Details

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