

## Autodesk Revit 2017 MEP Fundamentals

### TRAINING DURATION

Number of Hours: 24  
Number of Days: 3

### ABOUT THE COURSE

Autodesk® Revit® 2017 MEP Fundamentals is intended to introduce students to the software's user interface and the basic HVAC, electrical, and piping/plumbing components that make the Autodesk Revit software a powerful and flexible engineering modeling tool. The course will also familiarize students with the tools necessary to create, document, and print the parametric model. The examples and practices are designed to take the students through the basics of a full MEP project from linking in an architectural model to construction documents. The objective of Building Information Modeling, the Autodesk® Revit® 2017 MEP Fundamentals training is to teach the concepts and principles of creating 3D parametric models of MEP system from engineering design through construction documentation.

### WHO SHOULD ATTEND

This course is designed for new users of Revit® MEP.

### PREREQUISITES

This training guide introduces the fundamental skills in learning the Autodesk Revit MEP software. It is highly recommended that students have experience and knowledge in MEP engineering and its terminology.

### NOTES

The indicated course length is a guideline. Topics and duration may be modified by the instructor based upon the knowledge and skill level of the participants.

- ✓ Stanford IT Learning is an Autodesk Authorized Training and Certification Center.

### TOPICS

#### Introduction to BIM and Autodesk Revit

BIM and Autodesk Revit  
Overview of the Interface  
Starting Projects  
Viewing Commands

#### Basic Sketching and Modify Tools

Using General Sketching Tools  
Inserting Components  
Selecting and Editing Elements  
Working with Basic Modify Tools

#### Basic Systems Tools

Connecting Components  
Working with Additional Modify Tools  
Creating Systems – Overview

#### Starting Systems Projects

Linking in Revit Models  
Setting Up Levels  
Copying and Monitoring Elements  
Batch Copying Fixtures  
Coordinating Linked Models

#### Working with Views

Setting the View Display  
Duplicating Views  
Adding Callout Views  
Elevations and Sections

#### Spaces and Zones

Preparing a Model for Spaces  
Adding Spaces  
Working with Spaces  
Creating Zones  
Applying Color Schemes

#### Heating and Cooling Loads Analysis

Preparing a Project for Heating and Cooling Loads Analysis  
Analyzing the Heating and Cooling Loads

#### HVAC Networks

Adding Mechanical Equipment and Air Terminals  
Adding Ducts and Pipes  
Modifying Ducts and Pipes

#### Plumbing Networks

Adding Plumbing Fixtures and Equipment  
Adding Plumbing Pipes

Modifying Plumbing Pipes  
Adding Fire Protection Networks

#### Advanced Systems for HVAC and Plumbing

Creating and Modifying Systems  
Creating Automatic Layouts  
Testing Systems

#### Electrical Systems

About Electrical Systems  
Placing Electrical Components  
Creating Electrical Circuits  
Setting up Panel Schedules  
Adding Cable Trays and Conduit  
Testing Electrical Layout

#### Creating Construction Documents

Setting Up Sheets  
Placing and Modifying Views on Sheets  
Printing Sheets

#### Annotating Construction Documents

Working with Dimensions  
Working with Text  
Adding Detail Lines and Symbols  
Creating Legends

#### Adding Tags and Schedules

Adding Tags  
Working with Schedules




#### Creating Details

Setting Up Detail Views  
Adding Detail Components  
Annotating Details

### WHY LEARN WITH STANFORD IT LEARNING?

- ✓ Manuals are licensed copy of training manuals from Ascent – an Autodesk Authorized Publisher.
- ✓ Trainings are conducted using the latest available software and hardware with a hands-on training methodology.
- ✓ After the training, students are entitled to an internationally-recognized Autodesk certificate, an Autodesk Official Training Manual, retake privilege within 6 months of training and e-mail or phone technical support.
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