



AUTODESK/AUTOCAD TRAINING

Autodesk Revit Mep

Master Autodesk Revit MEP for building design. Learn to model and document MEP systems efficiently.

DURATION

Flexible

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

This Autodesk Revit MEP course provides an intensive, hands-on training experience for professionals looking to master Building Information Modeling (BIM) specifically for Mechanical, Electrical, and Plumbing (MEP) engineering systems. You will delve into the core technologies of Revit, learning to create intelligent 3D models for HVAC, piping, and electrical systems. The curriculum is designed to equip you with the skills to efficiently design, document, and analyze complex MEP installations, moving beyond traditional 2D CAD methods to a collaborative, data-rich environment.

The professional benefits of this course are substantial. By gaining proficiency in Revit MEP, you will enhance your project delivery capabilities, improve design accuracy, and streamline coordination with architectural and structural teams. This expertise is crucial for reducing costly errors, optimizing system performance, and meeting the growing industry demand for BIM-proficient engineers and designers. You'll be empowered to contribute to more sustainable, efficient, and well-integrated building projects, significantly boosting your career prospects in the competitive AEC (Architecture, Engineering, and Construction) sector.

Level	Intermediate
Vendor	Autodesk/AutoCAD

COURSE CURRICULUM

01 Module 1: Introduction to BIM & Revit MEP Fundamentals

- Understanding Building Information Modeling (BIM) Principles
- Revit MEP User Interface and Navigation
- Setting Up a Project: Templates, Levels, Grids
- Linking and Coordinating Architectural Models
- Basic Elements and Families Overview

02 Module 2: HVAC Systems Design

- Placing Mechanical Equipment (Air Handling Units, Chillers)
- Creating Duct Systems and Routing Ductwork
- Adding Air Terminals and Accessories
- Duct Sizing and System Analysis
- Creating HVAC Zones and Space Schedules

03 Module 3: Plumbing Systems Design

- Placing Plumbing Fixtures and Equipment
- Creating Piped Systems (Domestic Water, Sanitary, Vent)
- Routing Pipes and Adding Fittings
- Piping System Sizing and Analysis
- Creating Sloped Pipes and Connecting Systems

04 Module 4: Electrical Systems Design

- Placing Electrical Fixtures and Equipment
- Creating Circuits and Connecting to Panels
- Modeling Cable Trays and Conduits
- Lighting Layout and Switching Systems
- Power Distribution and Panel Schedules

Module 5: System Coordination & Documentation

- 05**
- Running Interference Checks (Clash Detection)
 - Creating Schedules and Quantity Take-offs
 - Generating Construction Documents: Sheets, Views, Annotation
 - Exporting and Importing Data for Collaboration
 - Introduction to Worksharing and Multi-user Projects

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **MEP BIM Modeler/Coordinator**
- > **HVAC Systems Design Engineer (BIM Specialist)**
- > **Plumbing & Fire Protection Systems Designer**

FREQUENTLY ASKED QUESTIONS

Q: What specific real-world project challenges can I solve after completing this Revit MEP course?

This course will equip you to tackle common project challenges such as performing clash detection between MEP systems and architectural/structural elements, optimizing duct and pipe routing for efficiency, calculating load requirements for HVAC and electrical systems, and accurately generating material take-offs and schedules directly from the BIM model. You'll learn to design intelligent systems that minimize rework and improve overall project coordination and delivery.

Q: What are the prerequisites for enrolling in the Autodesk Revit MEP course? Do I need prior Revit experience?

While prior experience with basic CAD software or a general understanding of building design principles is beneficial, this intermediate course is structured to guide you through Revit MEP from foundational concepts. We recommend a basic understanding of computer operations and a keen interest in Mechanical, Electrical, and Plumbing engineering design within a BIM environment. No prior Revit-specific experience is strictly required, but it would be advantageous to grasp the concepts quicker.

Q: How does mastering Autodesk Revit MEP impact my ability to collaborate with architects and structural engineers on integrated BIM projects?

Mastering Revit MEP significantly enhances your collaborative capabilities in integrated BIM projects. You'll learn to work within a shared model environment, directly linking and coordinating your MEP designs with architectural and structural models. This facilitates early clash detection, streamlined communication, and a more efficient design process, ensuring all disciplines are aligned and contributing to a cohesive project outcome. It positions you as a key player in multidisciplinary BIM teams, critical for modern construction practices.

ABOUT COMPUTER PRIDE



computerpride

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With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

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READY TO ENROL?

Take the next step in your technology career.

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