COURSE SYLLABUS

Revit MEP Certification Course (Self-Paced)

Gain fundamental skills in Mechanical, Electrical, and Plumbing (MEP) systems design and integration with Revit MEP. This bundle prepares students for the Autodesk Certified Professional exams in Revit for Mechanical Design and Electrical Design while providing hands-on experience in building systems coordination.

Group classes (Live Online) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/classes/revit-mep-professional-bundle



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Course Outline

This package includes these courses

- Introduction to Revit (Self-Paced) (30 Hours)
- Intermediate Revit (30 Hours)
- Revit Mechanical (Self-Paced) (30 Hours)
- Revit Plumbing (Self-Paced) (30 Hours)
- Introduction to Navisworks (Self-Paced) (30 Hours)

Introduction to Revit (Self-Paced)

This beginner-level Revit course offers an in-depth exploration of the interconnections within a Building Information Model using Revit's architectural toolset. The curriculum supports development of a fully integrated 3D model that concurrently produces coordinated 2D documentation—such as floor plans, elevations, and rendered perspectives—while drafting and designing. Instruction commences with a predefined template, proceeding through setup of floor plans and elevations, generation of 3D views, assembly of drawing sheets, and exportation of deliverables to PDF. If you are interested in Revit Certification (also referred to as BIM Certification), we recommend completing the Revit Certification Course series to be fully prepared for the Autodesk Certified User Exam for Revit.

- Describe Primary Revit Concepts and how they relate to Building Information Modeling (BIM)
- Explore the Revit User-Interface
- Design a 3D building model to explain how information is interrelated
- Determine the appropriate workflow to complete tasks within Revit
- Develop a project that includes floors, walls, ceilings, stairs, curtain walls, and roof design to strengthen 3D modeling and 2D documentation skills
- Create presentation-level architectural graphics

- Catalog building information using schedules

Intermediate Revit

Revit Mechanical (Self-Paced)

This MEP course focuses on using Revit MEP Mechanical to set up and manage mechanical systems within a building model. It begins with project setup, including linking architectural models, defining spaces, and setting up worksharing for team collaboration.

- Learn to set up and manage mechanical systems in Revit MEP, starting with project setup and worksharing
- Create, align, and replicate mechanical systems like ducts, VAVs, and rooftop units for proper airflow
- Configure mechanical equipment such as exhaust systems and kitchen hoods, and refine duct connections
- Practice linking architectural models, defining spaces, and coordinating mechanical systems across floors
- Resolve system clashes and adjust ceiling plans, supply terminals, and return air systems
- Tag mechanical elements, create schedules, and export detailed project sheets as PDFs for final submission

Revit Plumbing (Self-Paced)

This MEP course focuses on using Revit for plumbing, guiding students through the process of creating and managing plumbing systems within architectural models.

- Learn to create and manage plumbing systems in Revit by linking them with architectural models
- Gain experience adjusting pipe sizes, adding connectors, and refining layouts for fixtures like water heaters
- Work with practical systems like slope piping, sanitary systems, and vent systems throughout the course
- Set up efficient piping layouts, determine water distribution points, and align systems for coordination
- Create gas pipe networks, manage plumbing sheets, and apply consistent tags for clear documentation
- Finalize projects by reviewing, exporting, and verifying that all systems are properly aligned and functional

Introduction to Navisworks (Self-Paced)

Use Navisworks to integrate Revit, 3D AutoCAD and compatible programs into a 3D model to create clash detection between architectural, structural, MEP and fire-suppression systems.

- Explore the methodologies for integrating Revit, 3D AutoCAD and compatible software programs into a 3D model which can be used to create clash detection between various structural and MEP systems
- Apply workflow strategies for efficient use of integrating various BIM models into clash detection analysis models
- Create timeline animations representing 4D construction modeling and scheduling
- Produce and resolve time-based clash detection reports which will minimize on-site construction change order requests