COURSE SYLLABUS

Revit Structure Certification Course (Self-Paced)

Learn Revit Structure to create detailed 3D structural models and seamlessly integrate them into the BIM workflow. This bundle prepares students for the Autodesk Revit Certified User Exam and helps build a strong foundation in structural engineering design.

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

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Course Outline

This package includes these courses

- Introduction to Revit (Self-Paced) (30 Hours)
- Intermediate Revit (Self-Paced) (30 Hours)
- Revit Structure I (Self-Paced) (20 Hours)
- Revit Structure II (Self-Paced) (30 Hours)
- Introduction to Navisworks (Self-Paced) (30 Hours)

Introduction to Revit (Self-Paced)

In this online Revit course, you will learn how information is interrelated throughout the Revit (BIM) model using the Revit Architecture tools. You will design 3D building models that simultaneously document the project in schedules and in 2D construction documents.

What You Will Learn

- 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 inter-related
- 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.

Course Information

In this Revit course, you will create a Building Information Model starting from a pre-made template, create floor plans, elevations and 3D presentation views, place views on sheets, and print drawing sheets to PDF. You will be provided both source Revit files, which you will use to start your project, as well as videos which will guide you through the learning process. There will be quizzes relating to your project as well as discussion forums in which you will be participating. You will receive a Revit Course Certificate upon completion.

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.

Intermediate Revit (Self-Paced)

In this online BIM class, you will learn more advanced methods to document a project in Revit Architecture. Topics include scheduling building components, using the family editor to create 2D and 3D components, refining graphics, and creating an abbreviated set of construction documents.

What You Will Learn

- Integrate DWG Files to create Revit details.
- Tag elements for cost estimation and material take-offs.
- Explore the capabilities of design options, and how to present different options.
- Create 3D parametric families.
- Build customized door, material, and room schedules that can be used for construction take-offs.
- Explore BIM project Management techniques to keep models efficient and user friendly.

Course Information

In this online intermediate BIM class, students explore more advanced methods of documenting a building project in Revit Architecture by revising and continue to develop an existing Revit model, exploring design options, creating custom schedules, and learn the skills required to create custom Revit families. By the end of this course, students will be able to turn a conceptual Revit model into integrated and interoperable construction document set.

You will be provided both source Revit files, which you will use to start your project, as well as videos which will guide you through the learning process. There will be quizzes relating to your project as well as discussion forums in which you will be participating. You will receive a Revit Course Certificate upon completion.

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.

Revit Structure I (Self-Paced)

You will create and develop an accurate structural model of a real-world, four-story commercial project to learn about structural BIM modeling and to effectively integrate an interactive project with other disciplines.

- Create an accurate structure, for use in all program aspects of designing a project and the construction of a real-world model using Revit Structure.
- Develop a project from the very beginning and see its completion thru all aspects of BIM modeling.

- Gain an understanding of real-world practices for the effective integration of an interactive project with other disciplines.

Revit Structure II (Self-Paced)

Continue the structural project started in Revit Structure I. You will update the Revit Structure model, add annotations, set up detail sheets, create framing elevations and create a completed set of structural construction documents.

- Continue modeling an accurate structure, for use in all program aspects of project and construction of a real-world model.
- Finish developing and annotating a project from the very beginning and see its completion thru all aspects of BIM modeling and drawing production.
- Gain an understanding of real world practices for the effective integration of an interactive project with other disciplines.

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.