

# BIM Certificate

Gain expertise in Building Information Modeling (BIM) with Revit Architecture to create 3D models for commercial building projects. This hands-on program teaches you the technical skills and workflows for BIM while preparing you for a successful career.

Group classes in NYC and onsite training is available for this course.  
For more information, email [corporate@nobledesktop.com](mailto:corporate@nobledesktop.com) or visit:  
<https://www.nobledesktop.com/certificates/bim>



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## Course Outline

This package includes these courses

- Commercial Blueprint Reading (6 Hours)
- Residential Blueprint Reading (6 Hours)
- Construction Estimating (6 Hours)
- Introduction to Revit (18 Hours)
- Intermediate Revit (18 Hours)
- BIM Construction Documents I (12 Hours)
- BIM Construction Documents II (6 Hours)
- Revit Mechanical Course (12 Hours)
- Revit Electrical Course (12 Hours)
- Revit Plumbing (12 Hours)
- CAD/BIM Capstone Project (Self-Paced) (18 Hours)
- CAD/BIM Industry & Portfolio (12 Hours)

## Commercial Blueprint Reading

This Commercial Blueprint Reading course is designed to provide students with the foundational skills and insights necessary to interpret and analyze commercial construction drawings.

- Comprehensive Plan Reading: Explore how to navigate and interpret various plan types, including architectural, structural, MEP (mechanical, electrical, and plumbing), and site drawings.
- Construction Document Coordination: Understand how different sets of drawings relate to one another and identify overlapping details across plan sets.
- Real-World Practice: Analyze actual blueprint examples and construction documents to apply your learning in a practical context.
- Blueprints in Action: Learn how professionals use construction drawings for estimating costs, scheduling, and ensuring accurate execution on-site.

## Residential Blueprint Reading

This Residential Blueprint Reading Course offers a detailed introduction to reading and interpreting residential construction blueprints. Perfect for both newcomers entering the construction field and experienced professionals looking to sharpen their blueprint reading skills, this live, instructor-led course covers topics such as architectural notations, symbols, scales, and abbreviations. You'll learn how to interpret key residential drawings, including floor plans, elevations, sections, and construction details, to gain a full understanding of how to translate design documents into built environments.

- Understand how different drawings work together within a full set of Construction Documents
- Examine how scale is used across various types of drawings in a blueprint set
- Identify recurring elements and formatting across blueprint submissions for building permits
- Learn why consistent formatting and information presentation are critical across all Construction Documents

## Construction Estimating

The Construction Estimating Course introduces students to the core principles and techniques used in the estimating process. You'll examine the purpose of estimating and build the skills needed to create accurate and professional estimates. Topics include quantity takeoffs, pricing based on measured quantities, and the components of a well-structured cost estimate proposal. Estimating plays a critical role in construction, from bidding to project planning, and is essential for contractors, project managers, and estimators.

- Build foundational estimating skills for both residential and commercial construction projects
- Learn how to extract pricing data by reading architectural and structural construction documents
- Compare estimate types, including preliminary, detailed, and conceptual cost forecasting
- Understand how to calculate material quantities, labor, equipment, and other project-related costs
- Get familiar with commonly used construction estimating tools and digital software
- Strengthen your ability to spot cost issues early and adjust estimates to minimize financial risk

## Introduction to Revit

Learn the industry-leading software for Building Information Modeling (BIM) with our Introduction to Revit course at Noble Desktop. Whether you are an aspiring architect, engineer, or designer, this hands-on course will equip you with the essential skills to design, document, and analyze buildings and structures more efficiently. Guided by expert instructors, this course combines practical exercises with real-world examples to ensure you master the fundamentals of Revit.

- Revit Basics: Understand the interface, workspace, and essential tools to get started in Revit.
- Modeling Essentials: Learn to create parametric 3D models of buildings, including walls, doors, windows, roofs, and floors.
- Creating Documentation: Master the process of generating construction documents such as floor plans, sections, and elevations directly from your Revit models.
- Families and Components: Explore how to create and manage Revit families to customize components for your projects.
- Rendering and Visualization: Discover how to create photorealistic renderings and walkthroughs to bring your designs to life.
- Collaboration Tools: Gain insight into Revit's collaboration features to manage multi-disciplinary project teams effectively.

## Intermediate Revit

Take your Revit expertise to new heights with our comprehensive Intermediate Revit course offered at Noble Desktop.

Designed for professionals with a foundational understanding of Revit, this course is ideal for advancing your skills, enhancing productivity, and creating intricate, detail-rich project designs. Explore advanced tools, workflows, and techniques in a practical and industry-relevant way to elevate your Revit proficiency. This course dives deep into advanced Revit features, providing hands-on training to ensure you gain valuable, real-world skills.

- **Advanced Modeling Techniques:** Develop complex 3D models and refine your designs using Revit's advanced modeling tools. Learn how to handle more detailed components of architecture and engineering projects effectively
- **Workflow Optimization:** Explore tools and features to enhance efficiency, streamline workflows, and improve project coordination among multi-disciplinary teams
- **Construction Documentation:** Produce high-quality, professional-level construction documents, complete with annotations, schedules, and precise detailing to meet industry standards
- **View Control and Presentation:** Master viewport management, visibility settings, and presentation techniques to bring your designs to life in a visually compelling way
- **Family Creation and Management:** Learn advanced family creation techniques to build and customize parametric components, providing flexibility and adaptability across projects

## **BIM Construction Documents I**

Take your BIM knowledge to the next level with our BIM Construction Documents I course. This course is specifically designed to equip you with the foundational skills necessary to create, manage, and deliver comprehensive construction documents using Building Information Modeling tools. Whether you are a designer, architect, or project manager, this course will provide you with the understanding and techniques required to effectively produce accurate and detailed documentation for your projects.

- **Introduction to Construction Documentation:** Understand the role of construction documents in the building lifecycle and their relationship with BIM processes
- **Creating Annotation and Detailing:** Learn how to create clear and concise annotations, schedules, and detailed views that aid in communication across project stakeholders
- **Sheet Composition and Standards:** Develop professional sheet layouts using industry-standard practices to ensure consistency and readability
- **Collaboration Techniques:** Discover how to collaborate effectively within a multidisciplinary team, ensuring seamless integration of design models into project documentation
- **Document Review and Quality Assurance:** Gain knowledge on reviewing and troubleshooting documentation to reduce errors and improve project outcomes

## **BIM Construction Documents II**

The BIM Construction Documents II course is designed for individuals who have completed the introductory course or possess equivalent knowledge. This course dives deeper into advanced documentation techniques, focusing on efficiency, accuracy, and adherence to industry standards. With hands-on practice and expert-led instruction, you will gain invaluable experience that enhances your ability to produce complex project documentation.

- Master advanced features and tools in Revit for creating detailed drawings and construction documentation
- Learn how to work with complex models and integrate additional BIM data into your documents
- Improve accuracy and consistency across all phases of documentation
- Explore strategies for managing large-scale projects and collaborating with multidisciplinary teams
- Gain insights into industry best practices for creating professional, high-quality deliverables

## Revit Mechanical Course

Master the essentials of creating and managing mechanical systems in Autodesk Revit with our Revit Mechanical course. This comprehensive program is tailored for design and construction professionals who want to elevate their Building Information Modeling (BIM) expertise in mechanical systems design. Whether you are an experienced professional or just beginning your Revit Mechanical learning journey, this course provides the tools and techniques needed to excel in real-world applications. This course focuses on equipping students with the ability to design, analyze, and document mechanical systems efficiently.

- Understanding and implementing Revit's tools for HVAC and plumbing system design
- Creating and managing 3D mechanical components, families, and system types
- Laying out equipment and ductwork while maintaining system accuracy and connectivity
- Coordinating mechanical systems with other disciplines in a collaborative BIM environment
- Producing high-quality construction documents and schedules for mechanical systems
- Navigating advanced workflows to solve system design challenges

## Revit Electrical Course

The Revit Electrical Course is a comprehensive training program designed to teach students how to efficiently design and document electrical systems using Autodesk Revit. This course covers essential concepts and workflows for electrical design, including circuiting, panel schedules, power distribution, and lighting layouts.

- How to effectively utilize Autodesk Revit for electrical design and documentation
- Key concepts of Building Information Modeling (BIM) and their application in electrical systems
- Techniques for creating and modifying electrical plans, including power distribution and lighting layouts
- How to design electrical systems with precision, ensuring accuracy and compliance with standards
- Methods for annotating, documenting, and presenting electrical designs in Revit
- Best practices for coordinating electrical designs with other building systems using Revit's tools
- The skills required to produce professional-quality drawings and documentation for electrical projects
- How to prepare and finalize technical deliverables to meet project requirements

## Revit Plumbing

Master the fundamentals of creating, designing, and managing plumbing systems in Revit with this comprehensive course. Through practical, hands-on training, participants will learn how to model, coordinate, and document plumbing systems effectively within a BIM environment.

- Introduction to Revit for Plumbing Systems: Gain a foundational understanding of Revit and its interface, focusing on tools specific to plumbing system design
- Creating Plumbing Plan Views: Learn how to set up and manage plan views for plumbing layouts, ensuring clarity and accuracy in design presentations
- Modeling Comprehensive Plumbing Systems: Develop skills to design and model a complete plumbing system, including domestic water and sanitary systems, with appropriate pipework and fittings
- Understanding Pipe Types and Sizing: Explore methods for selecting and sizing pipes accurately, using Revit tools to automate and optimize system configurations
- Annotation and Documentation Techniques: Learn how to annotate plumbing systems and produce detailed documentation, including schedules, layouts, and legends
- Coordination with Other Building Systems: Master the process of coordinating plumbing systems with structural, architectural, and other MEP systems using Revit's advanced tools

- Troubleshooting and Quality Checks: Identify and resolve design issues within your plumbing systems, ensuring your models meet project specifications and industry standards
- Best Practices for Final Deliverables: Learn how to prepare polished, professional-quality drawings and documentation for successful project submissions

## **CAD/BIM Capstone Project (Self-Paced)**

## **CAD/BIM Industry & Portfolio**