COURSE SYLLABUS

Blueprint Reading & Construction Estimating Course (Self-Paced)

Learn blueprint reading and construction estimating fundamentals in a self-paced bundle covering residential and commercial plan sets, quantity takeoffs, Bluebeam-based digital estimating workflows, and construction materials, so you can interpret construction documents and prepare more accurate cost estimates.

> 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/blueprint-reading-estimating-fundamentals-bundle

hello@nobledesktop.com • (212) 226-4149

Course Outline

This package includes these courses

- Blueprint Reading Course - Residential Construction (Self-Paced) (10 Hours)
- Blueprint Reading Course - Commercial Construction (Self-Paced) (20 Hours)
- Intro to Construction Estimating Course (Self-Paced) (20 Hours)
- Construction Estimating with Bluebeam Course (Self-Paced) (30 Hours)
- Construction Materials Course (Self-Paced) (30 Hours)

Blueprint Reading Course - Residential Construction (Self-Paced)

This is an online blueprint reading class for residential construction projects. Learn from a licensed architect about drawing types, scale and about the relationships between drawings.

- Demonstrate an understanding of the inter-relationship between the drawings included in a set of Construction Documents (blueprints).
- Analyze different drawings and see how scale is presented throughout a set of Construction Documents.
- Evaluate the similarities between all sets of blueprint construction documents submitted for building permits.
- Recognize the need for consistency in presenting information in all types of Construction Document in this online blueprint reading course.

So what is blueprint reading and why is it necessary in the construction industry? Many people in the construction industry can benefit professionally by learning how to read a set of blueprints, also known as construction documents (CDs). “Blueprint” is the historic name for construction documents. Contractors build the design and follow the drawings included in the set of “blueprints.”

The blueprint reading class is 100% online and references a real-world project. VDCI encourages strong online engagement, participation in group discussion forums, and connecting with your instructor and classmates. Join us in the VDCI Student

Lounge, where our current students and alumni share information about the industry and help one another.

Blueprint Reading Course - Commercial Construction (Self-Paced)

This is an online blueprint reading course for commercial projects. Learn from a licensed architect how to read blueprint drawings for a mixed-use commercial project that includes hotel, retail and parking.

- Demonstrate an understanding of the inter-relationship between the drawings included in a set of Construction Documents (blueprints) for a Mixed-Use Commercial project.
- Analyze different drawings and see how information is referenced throughout a set of Construction Documents.
- Evaluate the similarities between all sets of construction documents submitted for building permits.
- Recognize the need for consistency in presenting information in all types of Construction Documents.
- Gain experience understanding how 3D model presentations within a set of construction documents make the construction documents easier to understand the project.

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Intro to Construction Estimating Course (Self-Paced)

This online construction estimator course is taught by a professional construction estimator. You will learn about the types of estimates and how an estimate is organized. The components and sub-components of an estimate will be addressed – you will learn how to become an estimator.

- Demonstrate an understanding of the inter-relationship between the construction drawings and a quantity-takeoff cost estimate.
- Analyze the components of a construction cost estimate and learn how a quantity-takeoff cost estimate is created.
- Master an understanding of quantity surveying, estimating takeoffs and pricing estimated quantities.
- Recognize the need for thoroughness and attention to detail when preparing construction cost estimates.

Construction Estimating with Bluebeam Course (Self-Paced)

This Bluebeam Estimating course teaches construction professionals how to perform accurate digital takeoffs and organize estimating data efficiently. Designed for contractors and estimators, the course focuses on using Bluebeam Revu to generate quantity reports, streamline estimating workflows, and prepare data for project proposals.

- Develop a strong foundation in digital estimating, including takeoffs, quantities, and bid preparation using Bluebeam Revu
- Use measurement, markup, and dynamic fill tools to calculate quantities across common building systems such as walls, windows, flooring, and roofing
- Organize estimating data with tool chests, layers, spaces, and custom columns, then export clean, editable quantity reports
- Apply skills to real construction drawings through structured exercises that reflect professional estimating workflows

Construction Materials Course (Self-Paced)

This course offers a practical overview of the materials and systems used in residential and commercial construction, from concrete foundations through roofing systems. You’ll examine how core materials are used, their key properties, and

sustainability considerations to support informed decision-making on construction projects.

- Understand the properties and applications of core construction materials, including concrete, steel, and wood
- Explore sustainable and innovative materials used in modern construction
- Learn how to evaluate and select materials based on project requirements
- Apply material knowledge to both residential and commercial construction scenarios
- Assess material performance, durability, and cost considerations
- Identify industry trends and best practices in material selection and use