COURSE SYLLABUS

Construction Management Course (Self-Paced)

Build a strong foundation in construction management through a comprehensive, software-focused certification program. Develop hands-on skills in scheduling, estimating, materials selection, and project coordination while gaining experience with industry-standard tools like Bluebeam, Smartsheet, and Procore.

> 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/construction-management-course-self-paced



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Course Outline

This package includes these courses

- Construction Management I (Self-Paced) (20 Hours)
- Construction Management II (Self-Paced) (20 Hours)
- Construction Scheduling Course (Self-Paced) (30 Hours)
- Construction Materials Course (Self-Paced) (30 Hours)
- Intro to Construction Estimating Course (Self-Paced) (20 Hours)
- Construction Estimating with Bluebeam Course (Self-Paced) (30 Hours)
- Construction Management with Procore Course (Self-Paced) (30 Hours)

Attend up to three (3) of these elective courses for free (all are optional).

- Commercial Blueprint Reading (Self-Paced)
- Residential Blueprint Reading (Self-Paced)
- MEP Blueprint Reading (Self-Paced)
- Structural Blueprint Reading (Self-Paced)
- Communication and Connection (Self-Paced)
- Self-Management Skills (Self-Paced)
- Teamwork, Collaboration & Leadership (Self-Paced)

Construction Management I (Self-Paced)

The construction industry involves a vast amount of knowledge that professionals build over a lifetime. Start your career with a course designed to provide a strong foundation for long-term success in the construction industry. Learn the fundamentals, key

terminology, and practical insights that give newcomers a valuable head start in the field.

- Overview of the construction industry
- Key stakeholders and their roles
- Project planning and master planning processes
- Construction industry sectors and project types
- Differences between design and construction phases
- Major project delivery systems and their applications
- Payment methods and procurement strategies
- Risk management through bonds and insurance

Construction Management II (Self-Paced)

In the second part of the Construction Management Fundamentals course series, you'll learn about cost estimating and scheduling concepts, earthwork estimating and contracts. There is an immense amount of information to absorb over a lifetime in construction.

- An overview of construction estimating
- Contracts and scheduling
- Safety and quality plans
- Site logistics and phasing
- Submittals, RFIs, and document control
- Stormwater management plans
- Site issues and tracking

Construction Scheduling Course (Self-Paced)

Learn the essential skills to plan, organize, and manage construction projects effectively with Smartsheet. From understanding scheduling basics to creating detailed project timelines, this course provides experience using Smartsheet to build and maintain professional construction schedules.

- The fundamentals of creating effective construction schedules tailored to project requirements
- Techniques for utilizing scheduling software to streamline project timelines and workflows
- Strategies for identifying and managing critical paths to avoid delays and ensure timely completion
- Best practices for resource allocation and balancing workloads across project teams
- Methods for monitoring progress and updating schedules to adapt to changing project conditions
- Tips for communicating schedules effectively with stakeholders and maintaining transparency throughout the project lifecycle

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

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 Management with Procore Course (Self-Paced)

Learn how to use Procore, the construction industry’s leading project management platform, to manage projects. This course focuses on applying Procore’s tools to streamline workflows, improve coordination, and support every phase of a construction project.

- Use Procore’s core tools to manage construction projects from planning through completion
- Improve collaboration and information flow between office and field teams
- Apply best practices for communication, task tracking, and issue management
- Address common project challenges across different stages of construction
- Streamline processes to reduce delays, limit rework, and keep projects aligned with goals