

Online Superintendent Bootcamp

The Superintendent Bootcamp is tailored to enhance the knowledge base of construction professionals aspiring to advance their careers. This course is perfect for field and project engineers, forepersons, assistant superintendents, and anyone eager to acquire an in-depth knowledge of the commercial construction process. The sessions offer an intensive exploration of constructing a project from inception to completion.

Unit 1: Sitework & Foundations

Session 1: Project Set-up / Surveying

Session 2: Environment, Dewatering

Session 3: Geotechnical Reports, Foundations, and Materials

Session 4: Excavation, Site Utilities

Session 5: Underground MEP, Slabs, and Flat Work

Session 6: Scheduling

Session 7: Shoring Systems, Structural Shotcrete, Blindside Waterproofing

Unit 2: Core & Shell

Session 1: Cast-In-Place Concrete and Post Tensioned Concrete

Session 2: Structural Steel/ Pre-Cast Concrete

Session 3: Wood Structures, Modular Systems and Roofing Systems

Session 4: Stucco, EIFS, Exterior Metal Panels and Cementitious Siding

Session 5: Proper Weather Barrier Installation, Dry-In and Glass and Glazing Systems

Session 6: Masonry

Session 7: Major Equipment



Schedule and
registration
[Training.](#)
[Registration](#)

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\$650

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\$850



CBI
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Online Superintendent Bootcamp

Unit 3: Finishes & Building Systems

Session 1: HVAC, Plumbing and MEP

Session 2: Specialty: Kitchens, Laundries, Science Labs,
Bathrooms

Session 3: Fire Sprinklers, Fire Alarms, and Smoke Control

Session 4: Healthcare Facilities and Infection Control

Session 5: Tile & Stone, and Flooring Finishes

Session 6: Hardscapes / Landscapes

Session 7: Closeout



Online Superintendent Bootcamp Unit 1: Sitework/Foundations

Overview

In this course, students will learn about scheduling considerations for construction as well as critical building methodologies and requirements. There is also a significant focus on sitework and foundations.

Session 1: Project Set-Up, Surveying & Layout

Project Set-up

The initial setup of a project and the people involved will be explained and described. Students will learn about site utilization and what is needed up front.

Surveying and Layout Methodologies

Students will be provided with information to help them understand the difference between the surveying and layout process. This training will outline the step-by-step process for surveying and layouts for projects.

Session 2: Geotechnical Reports, Foundations and Material Handling Solutions

Geotechnical Reports

An overview and explanation of Geotech reports will be covered giving participants a working knowledge of how to interpret the report as well as how to implement recommendations made in the report.

Foundations

Different soil types and foundations will be reviewed. Best practices of each will be discussed.



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Unit 1: Sitework/Foundations



Material Handling Solutions

Tower Cranes, Track Cranes, Forklifts, Hydro Cranes, and Material Hoists will be reviewed and indicators of which equipment to use in which situation will be covered along with application sizing.

Session 3: Environment / Dewatering

This class will explain what an environmental site assessment is and how it is used. Understanding what dewatering is and the required permits. Methods of dewatering dependent on various contaminants. How to manage water pollutants. Determining the correct discharge options based on key factors.

Session 4: Excavation / Trenching & Site Utilities

Excavation & Trenching

This session focuses on excavation and trenching safety. Hazards associated with excavations as well as the methods for protecting employees from cave-ins will be identified. It also covers employer requirements to protect workers from excavation hazards.

Site Utilities

The basics of site utilities will be introduced. Site utilities are building systems that usually come under some form of public control. These utilities generally include electricity, gas, water and sewage and communication services. Additionally, they may include irrigation systems, steam lines, medical gases, inert gases and other liquids/gases required for laboratory operations. There are many considerations that must be made when dealing with site utilities.

Session 5: Slabs and Flat Work

This class covers concrete slab considerations, slab on grade/void/deck. Analyze differences of slab on deck, suspended slab, and PT slab. Hot and cold weather placement and mix design. Identifying floor FF/FL and finishes.

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Unit 1: Sitework/Foundations



Session 6: Project Scheduling

An understanding of the true flow of the sequence using real-life examples will be taught. The steps needed to ensure that project scheduling is effectively done for a smoothly run project will also be outlined.

Session 7: Shoring Systems, Structural Shotcrete, Blindside Waterproofing

Shoring Systems

An overall explanation of the different types of shoring and best practices of installation of shoring systems will be taught. Students will learn about earthwork shoring, shoring, beam and lag systems, battered piers, grout column/soil nails and underpinning.

Structural Shotcrete and Blindside Waterproofing

A practical understanding of executing structural shotcrete and blindside waterproofing for 0-100 feet underground/below-grade excavation projects will be taught. Students will examine a comprehensive overview of the concepts, planning, techniques, and best practices for scheduling, sitework, building methodology, and environmental impact.

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Unit 2: Core & Shell

Overview

This class will explain the sequence of wood framed structures. Preconstruction considerations and vetting of subcontractors. Define modular cold-formed steel and it's advantages. Go over different system types, Prescient, FRAMECAD, and Infinity CAD.

Session 1: Cast-in-Place Concrete

Cast-in-Place Concrete

Students will learn about the different types of CIP applications and how the applications have different elements and considerations. Students will also learn about safety, quality, schedule and inspection considerations as well as how weather impacts CIP projects.

Post-tensioned Concrete

Students will learn about what post-tensioning of concrete is and some of the common applications of post-tensioned concrete. Students will also learn about the structural design elements of PT as well as key design, schedule, and inspection considerations.

Session 2: Structural Steel and Precast Concrete

Structural Steel

In this session students will learn about the specific considerations for structural steel, including steel procurements, safety, inspections, scheduling, crane operations, steel erection, and as-built drawings.

Session 3: Wood Structures and Modular Systems

This class will explain the sequence of wood framed structures. Preconstruction considerations and vetting of subcontractors. Define modular cold-formed steel and it's advantages. Go over different system types, Prescient, FRAMECAD, and Infinity CAD.



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Unit 2: Core & Shell



Session 4: Stucco, EIFS, Metal Panels, and Cementitious Siding

This class will explain the advantages and disadvantages of several different siding types as well as installation methods. The types covered will be Stucco, EIFS, Metal Panel, and Cementitious siding.

Session 5: Weather Barrier Installation, Dry-In, and Glass & Glazing

Weather Barriers

This session will describe the weather barrier concept, materials, manufacturers products and their practical applications. Participants will learn how different products are designed and how they should be installed correctly to meet the design intent of the architect team.

Glass and Glazing Systems

Students will learn about the different types of glass used in commercial construction along with the critical considerations for the different types of glass. Glazing systems will be examined and students will learn about the critical considerations associated with these systems. Students will also be exposed to considerations for punched window openings and borrowed lites/side lites.

Session 6: Masonry

This course covers the general topics of masonry related to typical projects with a focus on the aspects of planning and directing the successful outcome required.

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Unit 2: Core & Shell



Session 7: Major Equipment: HVAC, Elevators, Escalators

HVAC

In this course, students will learn about the systems, equipment and installation involved with HVAC systems. Specifically, this course will focus on the various pieces of distribution equipment. An overview of issues that may arise, as well as closing out the project will also be discussed.

Elevators

This course covers the pre-installation, installation, and post installation of elevators. Students will receive an overview of the role of the subcontractor as well as precautions that need to take place while installing elevators.

Escalators

In this course, students will learn about the key considerations when engaged in supervising an escalator installation project. Students will first look at procurement considerations and coordination efforts required for escalator installation. Then they will focus on the installation process, inspection process and the required finishes for an escalator project.

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Unit 3: Finishes/Bldg. Systems

Overview

In these seven sessions, students will learn about major scopes of building systems, including HVAC, plumbing and MEP as well as fire sprinklers, alarms and smoke control. The intricacies of specialty building types, including healthcare facilities, kitchen and labs will also be covered. The installation of tile, stone and flooring finishes will conclude this Unit.

Session 1: HVAC, Plumbing, and MEP

HVAC

Common HVAC systems are explained, as well as the types of projects that would utilize each system. Variations of source equipment and the pros and cons for each system will also be discussed.

Plumbing

This session aims to introduce students to the intricacies of plumbing. Instruction on plumbing materials and fixtures, as well as backflow prevention techniques will be provided, along with hot water requirements and an introduction to waste, vent, and storm systems.

MEP Rough-In

This session will cover key considerations for MEP rough-in. Students will be exposed to how MEP varies by project, the coordination that is required for MEP rough-in, the sequencing that must occur, how to schedule MEP rough-in and understand how the different types of buildings impact MEP rough-in.



For class schedule
and registration
visit:

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Unit 3: Finishes/Bldg. Systems



Session 2: Specialty: Kitchens, Laundries, Science Labs, Bathrooms

Kitchens and Laundries

This session will give students an overview of special equipment and coordination required for kitchen, laundries and other specialty projects. Emphasis will be on identifying where to find the information needed, and the focus necessary, to minimize rework and to accomplish the job efficiently.

Science Laboratories

In this course, student will learn about how to manage science laboratory projects. Primarily students will focus on fume hoods and considerations for the installation of fume hoods in projects.

Toilet, Bath, Gym, FRP

Toilet & Bath, Gym, and FRP gives specific information into the proper installation of products according to product type, purpose, and ADA compliance requirements.

Session 3: Fire Sprinklers, Fire Alarms, and Smoke Control

Fire Sprinklers

This session provides students with an overview of building fire sprinkler systems. This session is designed to give students the ability to scope out each system for its intended use. Students will also learn about the different components of the system, different types of systems, and testing the system.

Fire Alarms and Smoke Control

This session provides the learner with an overview of building systems fire alarms and smoke control. This session is designed to give students the ability to scope out each system for its intended use.

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Unit 3: Finishes/Bldg. Systems



Session 4: Healthcare Facilities and Infection Control

Healthcare Facilities

In this session, students will learn about the special considerations for projects involving medical gas. The different types of med-gas, med-gas monitoring systems, med-gas design and procurement, med-gas scheduling and installation and the commissioning and certification process for med-gas systems will be covered.

Infection Control

This session is designed to provide students with key considerations when engaged in a project focused on infection prevention. This session will focus on Infection Control awareness, risk assessments, materials and equipment, and other key considerations for infection prevention and awareness.

Session 5: Tile & Stone, Flooring Finishes

Tile & Stone

This session will focus on key factors that essentially apply to every floor covering and finish commonly used in the industry, including polished concrete, terrazzo, tile, wood, engineer, VCT, vinyl, resinous, and carpet.

Flooring Finishes

This course will focus on key factors that essentially apply to every floor covering and finish commonly used in the industry, including polished concrete, terrazzo, tile, wood, engineer, VCT, vinyl, resinous, and carpet.

Session 6: Hardscapes and Landscapes

This class will cover considerations and requirements of Hardscapes and Landscapes on a project. Identifying erosion control processes and solutions will also be covered. Subgrade and ADA consideration for the general public.

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Unit 3: Finishes/Bldg. Systems

Session 7: Final Closeout

This class will enhance the students understanding of the timing and steps necessary to secure a TCO (Temporary Certificate of Occupancy). As well as, the steps to secure the CO (Certificate of Occupancy).

