

Complete your certificate in

Civil Sitework Construction

Complete all 4 of the following classes



104 Estimating Civil and Sitework Construction

This course introduces students to estimating civil engineering projects, heavy construction projects, and site work construction projects. This course will cover reading and understanding civil construction blueprints, determining earthwork quantities, determining crew make-up, and fundamentals of estimating various civil and site work components.

110 Civil Blueprint Reading and Processes

This course gives the student an overall and elementary understanding of civil construction blueprints and materials. This includes understanding and interpreting civil construction blueprints, reading specifications, manufacture and use of civil construction materials such as aggregates, concrete, asphalt, pipe, and geosynthetics.

108 Construction Equipment and Methods

Develop an overall understanding of construction equipment and selected construction methods. Students will determine earthwork quantities, understand equipment economics and utilization, equipment production rates, fundamentals of earthmoving and excavating, loading and hauling equipment.

109 Practical Applications of Civil Construction

This course focuses on understanding civil construction techniques. This includes site preparation and grading, excavation, backfill, compaction, trenching, paving, and dewatering. Discussion on the proper methods of determining earthwork quantities, estimating civil construction costs and safety implications.

Choose one of the following courses to complete the Certificate in Civil Sitework

204 Contract Documents and Construction Law

Learn about common construction contract clauses and how to read a contract. Construction disputes including differing site conditions, claims, delays, and construction defects will be studied.

205 Planning and Scheduling

Learn and apply basic planning and scheduling skills. Prepare bar chart schedules



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and critical path schedules. Read complex project schedules and understand the basics of project management by scheduling.

Student testimonials from Civil Sitework Construction online classes

108 Construction Equipment and Methods

“Mr. Dunow is a great instructor and has a wealth of construction/engineering experience which he shares with the class through his lessons and discussion posts. Hope to have him again in my upcoming courses.”

I liked the way the course was laid out. I incorporated the text, discussion with classmates and practical applications through homework assignments. I appreciated the consistency in the time each module took.

I thought the whole course was interesting, but the production rates, equipment acquisition decision making and just learning the specifics about each piece of equipment was fascinating.

“The most interesting thing to me in this course was learning to calculate earth excavation both in volume and time. I found this portion intriguing because it allows the estimation of time and how much earth is to be moved. From this most all other parts of the job can be determined such as equipment selection.”

“To me this course showed me how to make informed equipment choices based on the job requirements. This is critical any being able to create any bids on jobs and it allows one to determine if they need to purchase more or rent equipment for the job.”

114 Estimating Civil and Sitework

“The biggest take away from this class I am leaving with is a MUCH stronger fundamental understanding of how to calculate cut and fill quantities

I feel now my understanding of how to prepare a bid is better than before. I liked all the formulas we used to calculate our takeoffs. Especially the ones about productivity. I think if you have never actually been out in the field and operated these machines, then being able to calculate efficiency with a simple formula is better than guessing.

“Thought the way we were taught to build crew and equipment costs was a useful skill the class provided, but calculating quantities of cut and fill will be the most useful skill I’ll take from the class.”

Construction Experts Inc.