



Construction Engineering Certificate Program

*Become a Successful Construction
Leader and Project Manager*

- *Blended Learning Format*
- *Flexible and Convenient*
- *Core Courses Are Instructor-Led*
- *Elective Courses Are Now On-Demand*



“As a construction manager, I validate my skills with a prestigious organization like ASCE.”

*—John Curtis Baucum, Aff.M.ASCE, Construction
Manager/Inspector, H. Davis Cole & Associates*

Construction Engineering Certificate Program

Gain real-world construction project management skills to become a successful project manager and lead with confidence!

What Will You Learn?

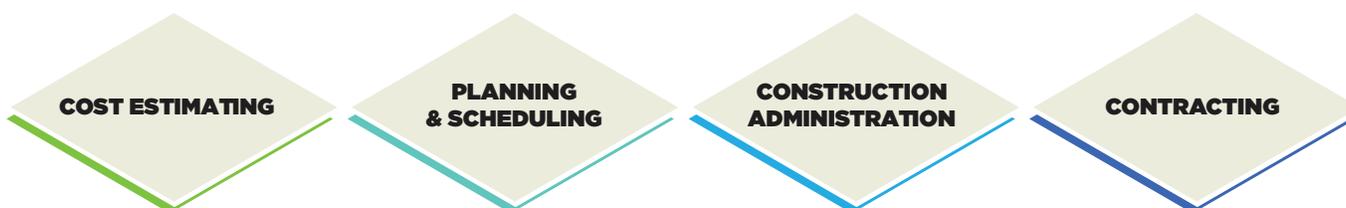
ASCE's Construction Engineering Certificate Program provides the fundamental skills, knowledge, tools, and techniques you need to take a leadership role in construction project management.

This curriculum incorporates soft, nondesign skills civil engineers need as they advance into project management responsibilities in both design and construction.

Upon completion, you will earn **6.0 CEUs/60 PDHs**. The program is designed to offer expertise in two core paths: structures and heavy civil utilities. Each course path consists of **4 core courses** and **2 electives** of your choice.

Construction Project Management Competencies

This program provides a broad overview of the essential bodies of knowledge in four primary focus areas.



WHY SHOULD YOU ENROLL IN THE PROGRAM?

Bridge the knowledge and skill gap in the Civil Engineering profession

The certificate program bridges the knowledge and skill gap by providing practical knowledge along with real-world skillsets in cost estimating, scheduling and planning, contract administration, and contracting skills that most civil engineers will need as they transition from an entry-level design position into project management.

Learn from industry experts

Douglas D. Gransberg and **Nils J. Gransberg** draw upon their academic knowledge and practical experience in from both private and public sectors to help civil engineers master fundamental skills and essential project management bodies of knowledge to succeed in their careers.

Improve your performance and validate your skills

Over 50% of engineers, whether they work in the design or the construction industry, will become project managers at some point in their career. To assist civil engineers' transition into project management, the certificate program offers expertise in two core paths: building and heavy civil utilities. The core skills gained from this certificate program will improve your ability to efficiently manage your current and future projects. Earn this certificate to excel in your job and gain recognition from your employer for your professional development.

Differentiate yourself in a competitive job market

The civil engineering profession is highly competitive; thus, standing out from the crowd can be difficult. Earning the Construction Engineering Certificate formalizes your newly gained knowledge, providing your employers proof of your commitment to upskill. This certificate program is what you need to get ahead of your peers and get up to speed with construction industry to make yourself more attractive to prospective employers. By completing this course, you will hone your skills and poise yourself for advancement—whether you're a civil engineer or a professional tasked with scheduling, estimating, contracting, or construction administration.

Build your credibility

The Construction Engineering Certificate Program models core civil engineering and project management competencies. Apply the newly gained expertise to your project with confidence to prove you have potential to lead and be a successful project manager.

Be a part of a bigger engineering community

Expand your professional network by participating in the community forum to share insights and discuss challenges.

How It Works

This blended program merges the convenience and flexibility of asynchronous with the immediacy and expert interaction from synchronous. It allows you to achieve your professional development goals faster by overcoming unique limitations that you might face as a working professional. This certificate program consists of six 6-week courses, which includes four core courses and two elective courses. The core courses are instructor-led, with synchronous interaction sessions, and are offered twice a year. All core courses have a start and end date, and a 2-week grace period to complete the exam and

earn credits. The electives are offered as on-demand courses to provide you greater flexibility to complete at your own speed. All courses include asynchronous online recorded lectures to convey the fundamental concepts and demonstrate example calculations. You will work to solve problems, evaluate case studies, and perform practical exercises. You will have the opportunity to schedule office hours with instructors or send questions. All courses include a final exam to demonstrate comprehension level. You can complete your certificate program in as little as six months, but you will have up to four years.

Earn your Construction Engineering Certificate in as little as six months



STEP 1:
**Access Registration Form in
myLearning for Course Selection**
(Select a Core Path)

Building Emphasis Core Path

- Quantity Take-off: Structures
- Pricing and Bidding: Lump Sum Jobs
- Principles of Critical Path Scheduling
- Principles of Construction Contracts

OR

Heavy Civil / Utilities Emphasis Core Path

- Quantity Take-off: Heavy Civil / Utilities
- Pricing and Bidding: Unit Price Jobs
- Principles of Critical Path Scheduling
- Principles of Construction Contracts

STEP 2:
Select Electives
(Select Two Electives)

- Project Planning and Control
- Project Delivery Methods
- Developing Proposals
- Principles of Contract Negotiation
- Quality Management
- Safety Management

STEP 3:
Complete Six Courses

You must earn 70% or more on the final exam to pass each course. A digital certificate is awarded for each completed course and for the program.

Be sure to check
go.asce.org/ConstructionCert
periodically for the latest course schedule

Who Should Attend?

This program is ideal for civil engineers, construction project owners, design consultants, and construction contractors, and for professionals working on civil engineering projects such as:

- Surveyors
- Planners
- Cost-estimators
- Safety managers



The content is also valuable to other members of the AEC industry, such as architects, business managers, and lawyers. Since construction industry professionals come from a variety of backgrounds, there is no minimum education or work experience requirement. However, relevant work experience in the construction industry will help you to follow the content.

INSTRUCTORS



Douglas D. Gransberg, PH.D., P.E., M.ASCE, is the president and founder of Gransberg & Associates, Inc., a construction management / project delivery consulting firm. Doug is a former Construction Engineering professor at Iowa State University. He led efforts in development and co-authored numerous guides for AASHTO, such as the *AASHTO Guide for Design-Build Contracting*.



Nils J. Gransberg, A.M.ASCE, is the vice president of Gransberg & Associates Inc., a construction management / project delivery consulting firm. He previously worked as an owner's project manager for capital projects at the University of Oklahoma Architectural & Engineering Services.



ASCE Continuing Education

Learn from the leader in lifelong learning for civil engineers

To thrive in a competitive industry, you need polished skills, updates on the latest technology, and a firm understanding of what's going on in the civil engineering profession. ASCE's continuing education goal is to equip our members with the knowledge and skills necessary to compete in a world of ever-changing information and technology. Your instructors are respected authorities in their fields who have practical experience to share with you. As the leader in lifelong learning for civil engineers, we offer a comprehensive suite of in-person and online programs for individuals and organizations.



HOW TO CONTACT US:

General Continuing Education Information

go.asce.org/ContinuingEducation



Email

continuingeducation@asce.org



Call/Fax

9:00 AM - 6:00 PM Eastern Time
(Monday-Friday)

1-800-548-2723

+1-703-295-6300 International

1-866-902-5593 Fax



Mail

American Society of Civil Engineers
P.O. Box 79162
Baltimore, MD 21279-0162

go.asce.org/ConstructionCert