

Credit Information

These webinars are open to the public and are designed to offer 2.0 - 3.0 PDHs to professional engineers, 2.0 - 3.0 HSW continuing education hours to licensed architects, and 2.0 - 3.0 HSW continuing education hours to landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved HalfMoon Education as a continuing education provider (Sponsor No. J885). Course approval for the webinars contained in this brochure vary from pending to 2.0 - 3.0 LU | HSW. Only full participation is reportable to the AIA CES.

The Landscape Architect Continuing Education System has approved HalfMoon Education as a continuing education provider. Course approval for the webinars contained in this brochure vary from pending to 2.0 - 3.0 PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved HalfMoon Education as a Preferred Provider of continuing education (No. 1232). Course approval for the webinars contained in this brochure vary from pending to .2 - .3 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

These webinars have been approved by the Association of State Floodplain Managers for 2.0 - 3.0 CECs for floodplain managers.

Visit course listings at www.halfmoonseminars.org for updates on pending credits.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

Added Value: Enhance your learning - recordings of these webinars will be available for attendees to stream online for two weeks after the program dates. (Must attend live webinar to earn live webinar credits)

Soil, Slopes and Retaining Walls: An Interactive Workshop

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Altoona, WI 54720-0278



Soil, Slopes and Retaining Walls: An Interactive Workshop

Pick and choose which courses apply to you!

Sign up for each course individually or all seven at a discounted rate

Each course approved for continuing education credit!

Including AIA Credit, ICC CEUs, and PE PDHs (see inside for credits)

Submit your specific wall and/or slope issues/problems prior to the start of or during the series and the presenter will address your specific issues, project concerns, etc. as it relates to the topic of the week! Instructions will be sent via email after registration is processed.



HalfMoon Education Online Learning Soil, Slopes and Retaining Walls: Interactive Workshops



Seven live short webinars that teach about soil mechanics, retaining wall design and slope stabilization.

1. Soil Testing, Properties and Uses
- Thursday, October 6, 2022
2. Retaining Walls and Lateral Earth Pressure
- Thursday, October 13, 2022
3. Internal Design of MSE Walls and Geosynthetics
- Thursday, October 20, 2022
4. Retaining Wall Selection: How to Know What to Specify
- Thursday, October 27, 2022
5. Unreinforced Slope Stability Analysis
- Thursday, November 3, 2022
6. How to Design a Reinforced Slope
- Thursday, November 10, 2022
7. Best (and Worst) Practices for Retaining Wall Success and Interactive Workshop Wrap-Up
- Thursday, November 17, 2022



Soil Testing, Properties and Uses

Thursday, October 6, 2022 | 10:00 am - 12:00 pm CDT

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours
LA CES: 2.0 HSW PDHs Floodplain Managers: 2.0 ASFPM CECs
International Code Council: .2 CEUs (Sitework)

Agenda:

Soil properties Lab testing of soil
Field testing of soil Preparing and reading soil and test reports
The different types of soil
How to select the proper soil test for your specific project/application

22 USSOILT 10 6 WEBR LH

Retaining Walls and Lateral Earth Pressure

Thursday, October 13, 2022 | 10:00 am - 12:00 pm CDT

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours
LA CES: 2.0 HSW PDHs Floodplain Managers: 2.0 ASFPM CECs
International Code Council: .2 CEUs (Sitework)

Agenda:

Defining "the wall" Identifying forces on a retaining wall
How to account for and resist soil pressure
How water pressure impacts a retaining wall
The properties of the soil that contribute to the wall design
Equations and examples

22 USRTWLEP 10 13 WEBR LH

Internal Design of MSE Walls and Geosynthetics

Thursday, October 20, 2022 | 10:00 am - 1:15 pm CDT (incl. 15min. break)

Tuition: \$159

Credits: Professional Engineers: 3.0 PDHs Architects: 3.0 HSW CE Hours
AIA: 3.0 LU|HSW Landscape Architects: 3.0 HSW CE Hours
LA CES: 3.0 HSW PDHs Floodplain Managers: 3.0 ASFPM CECs
International Code Council: .3 CEUs (Sitework)

Agenda:

Materials used in construction of an MSE wall
What constitutes "the wall" when discussing an MSE wall
Properties of common geosynthetics
How an MSE wall differs from other wall types
Discussion of different blocks, reinforcement, and their interaction
Design code requirements for an MSE wall
How an MSE wall interacts with other site features such as building and utilities
Equations, calculations, and examples of internal stability of an MSE wall
Case histories of MSE wall failures highlighting what NOT to do

22 USIDMSEG 10 20 WEBR LH

Register for the entire series and save \$114 by using coupon code SSRWSERIES at checkout online.

Retaining Wall Selection: How to Know What to Specify

Thursday, October 27, 2022 | 10:00 am - 12:40 pm CDT (incl. 10-min. break) **Tuition:** \$159

Credits: Professional Engineers: 2.5 PDHs Architects: 2.5 HSW CE Hours
AIA: 2.5 LU|HSW Landscape Architects: 2.5 HSW CE Hours
LA CES: 2.5 HSW PDHs Floodplain Managers: 2.5 ASFPM CECs
International Code Council: Pending

Agenda:

Common types of retaining walls commonly used in today's construction
Best applications of a cast-in-place concrete retaining wall
Alternatives to cast-in-place retaining wall construction
Advantages to using gravity retaining walls
Different types of gravity retaining walls
Basic concepts of MSE systems When to specify an MSE wall or MSE slope
Site layout concerns to consider when locating a retaining wall

22 USRTWSEL 10 27 WEBR LH

Unreinforced Slope Stability Analysis

Thursday, November 3, 2022 | 10:00 am - 12:00 pm CDT

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours
LA CES: 2.0 HSW PDHs Floodplain Managers: 2.0 ASFPM CECs
International Code Council: .2 CEUs (Sitework)

Agenda:

Fundamentals of slope instability
Soil and geological mechanics related to slope instability
How geologic conditions affect slope stability
Observations of slope instability
Construction practices to improve or restore slope stability
Equations, calculations, and example of an unreinforced slope

22 USUSLPSA 11 3 WEBR LH

Submit your specific wall and/or slope issues/problems prior to the start of or during the series and the presenter will address your specific issues, project concerns, etc. as they relate to the topic of the week! Instructions will be sent via email after registration is processed.

Can't Attend? Order any of these Webinars as a Self-Study Package!

Recordings of these webinars are available for purchase. See course listing online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

How to Design a Reinforced Slope

Thursday, November 10, 2022 | 10:00 am - 12:00 pm CDT

Tuition: \$109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours
AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours
LA CES: 2.0 HSW PDHs Floodplain Managers: 2.0 ASFPM CECs
International Code Council: .2 CEUs (Sitework)

Agenda:

Geosynthetic properties for use in slope stabilization
Deep seated stability analysis
Equations, calculations, and example of using geosynthetics to reinforce a slope
Case histories of deep seated, rotational failures and other slope failures
Soil properties and conditions that contribute to slope stability
Material required for the exposed face of the slope to maintain long term stability

22 USH2DRSL 11 10 WEBR LH

Best (and Worst) Practices for Retaining Wall Success and Interactive Workshop Wrap-Up

Thursday, November 17, 2022 | 10:00 am - 1:15 pm CDT (incl. 15-min. break) **Tuition:** \$159

Credits: Professional Engineers: 3.0 PDHs Architects: 3.0 HSW CE Hours
AIA: 3.0 LU|HSW Landscape Architects: 3.0 HSW CE Hours
LA CES: 3.0 HSW PDHs Floodplain Managers: 3.0 ASFPM CECs
International Code Council: .3 CEUs (Sitework)

Agenda:

Preventing problems or wall failures through improved site layout
Preventing problems or failures through proper wall design techniques
Commonly overlooked design code requirements related to retaining wall layout and design
Roles and responsibilities of the design and construction team to ensure structure success
Typical causes of problems or structure failure
Recognizing and preventing a problem during construction
How water (both surface and below ground) affects an earth structure
What measures to take during construction to ensure long term earth structure success
Case histories and examples of failed structures

22 USBP4RWS 11 17 WEBR LH



Series presented by Bill Simpson, P.E.

Geotechnical Structure Design Specialist at Gradelta Engineering

Mr. Simpson founded Gradelta Engineering in 2020 with the intent to help clients better understand the combination of geotechnical and structural engineering that he has worked with for the past 20 years. He earned his B.S.C.E. and M.S.C.E. degrees from Georgia Institute of Technology. He currently provides engineering services to contractors and fellow engineers for earth structure pricing, along with the plans and calculations needed for construction. He frequently consults with clients regarding the optimal structure type and location on the construction site to minimize risk and maximize useable space. He also works in the education sector providing not just seminars such as this one, but also acting as a subject matter expert creating study guide and test prep content for the NCEES Professional Civil Engineer exam. Mr. Simpson has also worked with lawyers and insurance companies during forensic investigation and lawsuits surrounding retaining walls and slope failures. His hope is that through the instructional services that he currently provides, slopes will remain stable and retaining wall failure will be eliminated.

Learn More and Register:

www.halfmoonseminars.org

Customer Service (715) 835-5900 Ext. 1

or scan here

