Credit Information

Erosion and Sediment Control

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects in all states. It offers 6.0 HSW continuing education hours to landscape architects in most states. HalfMoon Education is not seeking landscape architect approval in Florida, New Jersey, or North Carolina.

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, architects and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2) and §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for Florida architects. Other states do not preapprove continuing education providers or courses.

This course has been approved by the American Institute of Architects Continuing Education System for 6.0 LU|HSW (Sponsor No. J885) and The Landscape Architecture Continuing Education System for 6.0 HSW PDHs. Only full participation is reportable to the AIA/CES or LA CES.

The Association of State Floodplain Managers has approved this event for 6.0 CECs for Certified Floodplain Managers.

Course completion certificates will be awarded to participants who complete the webinar in its entirety, and earn a score of 80% on the quiz that follows the instruction (multiple attempts allowed).

Introduction to HEC-HMS Modeling

This webinar offers 6.0 PDHs to professional engineers licensed in all states.

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 via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2)). Other states do not preapprove continuing education providers or courses.

The Association of State Floodplain Managers has approved this course for 6.0 CECs for floodplain managers.

Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Can't Attend? Order the Webinar as a Self-Study Package!
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Live, Interactive Webinars
- Erosion and Sediment Control
- Introduction to HEC-HMS Modeling

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Live, Interactive Webinars

Erosion and Sediment Control

- Thursday, September 9, 2021 | 9:00 am - 4:00 pm CDT

Introduction to HEC-HMS Modeling

- Friday, September 10, 2021 | 8:30 am - 4:00 pm CDT

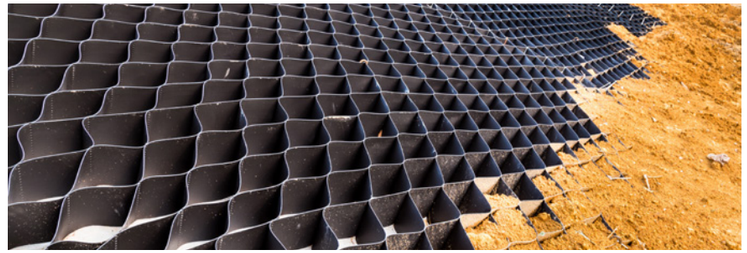
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HalfMoon Education Online Learning

Live, Interactive Webinars



Erosion and Sediment Control

Thursday, September 9, 2021 | 9:00 am - 4:00 pm CDT

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW Landscape Architects: 6.0 HSW CE Hours
LA CES: 6.0 HSW PDHs Floodplain Managers: 6.0 ASFPM CECs



Introduction to HEC-HMS Modeling

Friday, September 10, 2021 | 8:30 am - 4:00 pm CDT

Credits: Professional Engineers: 6.0 PDHs
Floodplain Managers: 6.0 ASFPM CECs

To register, visit us online at

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LA CES AIA Continuing Education Provider

HalfMoon Education Inc.
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Erosion and Sediment Control

Thursday, September 9, 2021 | 9:00 am - 4:00 pm CDT (incl. a 30-min break)

Tuition: $289 per registrant, $199 per registrant for three or more

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW Landscape Architects: 6.0 HSW CE Hours
LA CES: 6.0 HSW PDHs Floodplain Managers: 6.0 ASFPM CECs

Agenda

Erosion and Sediment Control Requirements and Goals
- Environmental Protection Agency regulations
- Practices that minimize site disturbance
- Preservation of native vegetation
- Selecting appropriate practices for disturbed areas on the construction site

Erosion and Sediment Control Best Practices Part I
- Temporary and permanent seeding, sodding and mulching
- Use of geotextiles
- Chemical soil stabilization
- Establishment of buffer zones
- Stream bank erosion protection
- Bank stabilization and repair

Erosion and Sediment Control Best Practices Part II
- Earthen dikes
- Drainage swales
- Pipe drains
- Subsurface drains
- Silt fences
- Berms
- Check dams

Sediment Traps and Sediment Basins
- Calculating flow rates and capacity
- Designing and sizing
- Maintenance plans

Overview of Erosion and Sediment Control Resources
- Soils research and analysis
- Watershed identification
- Impaired water bodies and TMDL acknowledgements

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Introduction to HEC-HMS Modeling

Friday, September 10, 2021 | 8:30 am - 4:00 pm CDT (incl. a 60-min break)

Tuition: $289 per registrant, $199 per registrant for three or more

Credits: Professional Engineers: 6.0 PDHs
Floodplain Managers: 6.0 ASFPM CECs

Agenda

Introduction, History, and Development of US Army Corps HEC-HMS Software
- Brief history
- Applications of HEC-HMS
- Computational categories

Basic Hydrologic Concepts
- The hydrologic cycle and HEC-HMS
- User interface
- Input, output

Loss Rates
- Loss computation assumptions and methods
- Accounting for urbanization
- Selecting a loss method and estimating parameters

Unit Hydrographs and Rainfall/Runoff Transformation
- Assumptions of the unit hydrograph
- Derivation and application of the unit hydrograph
- Selecting a unit hydrograph method and estimating parameters

Precipitation
- Storm distributions
- Hypothetical vs. historical storms
- Sources of precipitation data

Hydrograph Routing
- Purpose, importance, and effects of hydrograph routing
- Routing methods
- Diversions and returns

Reservoirs
- Purpose, importance, and effects of reservoir routing
- Types of reservoirs and detention
- Reservoir routing input and output

Using Diversions
- Applications for flow diversions

Using HEC-HMS in Design
- Design example walkthrough

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Faculty

Erosion and Sediment Control

Brad Flack CPESC, CESSWI, QCIS *President & CEO of Integrity Stormwater*

Mr. Flack has earned his designation, among select thousands in the world, as a certified professional in erosion and sediment control (CPESC) as well as his designation as a certified erosion, sediment and stormwater inspector (CESSWI) and a course instructor, lending his experience and training to his customers for all of their stormwater needs. Furthermore, he is among the select few who are qualified compliance inspectors of stormwater (QCIS). He has served as the president and the administrative vice president of the South Central Chapter of the International Erosion Control Association (IECA). Mr. Flack was the Region 6 president for EnviroCert International and has served as the Region 7 representative for CPESC, Inc. He was technical vice-chair for the CPESC Council, and he is on the Education Committee: Stormwater Management Track for the International Erosion Control Association Region 1 which encompasses North America, South America and Europe, where he has served as chair. Mr. Flack was awarded Young Professional of the Year for 2014 by the IECA Region 1 and is also an IECA Mentor. He also served as a member of the Policies and Procedures Committee and the Certified Professional in Industrial Stormwater Management Committee for EnviroCert International. He is an EnviroMentor for the Texas Commission on Environmental Quality (TCEQ) as well as a member of the TCEQ Houston Area Small Business Advisory Council. Mr. Flack has been involved with stormwater management since 2004, when he learned about permitting, turf establishment, erosion control and detention pond maintenance. He has since continued to learn and develop his stormwater knowledge and skills and is now a speaker at many conferences sharing his expertise across the US and internationally. He is married to his high school sweetheart and they have three boys. He works both locally and internationally on humanitarian projects and in missionary service.

Introduction to HEC-HMS Modeling

Chris Naidu, PE *Water Resources Civil Engineer, Senior Project Manager at RESPEC*

Mr. Naidu has more than 10 years of experience in drainage and flood control projects throughout New Mexico. His experience includes preparation of drainage management plans (DMP), hydrologic analysis, hydraulic analysis of flood control structures, sediment transport, and scour analysis for unlined arroyos and bridge structures. Using modeling/analysis software, Mr. Naidu produces high quality hydrologic and hydraulic models. He has a proven record of preparing easy-to-understand reports and corresponding maps and figures. He has prepared hydrographs and analyzed storm drains, weirs, pump stations, and detention/surge ponds. Additional skills include preparation of plan specifications, bidding and construction plans, cost estimates, and bidding services. He is familiar with Arc Geographic Information System (ArcGIS); Hydrologic Engineering Center (HEC) Hydrologic Modeling System, HEC Geospatial Hydrologic Modeling Extension (geoHMS0, HEC River Analysis System, US Environmental Protection Agency Storm Water Management Model (EPA SWMM), StormCad, and CulvertMaster.

Additional Learning

2021 International Wildland-Urban Interface Code
- Thurs, Aug 19, 2021|8:30 am - 4:30 pm CDT

Soil Mechanics, Bearing Capacity and Slope Stabilization
- Fri, Aug 20, 2021|8:30 am - 4:30 pm CDT

How To Handle Ethical Issues Associated with Defects and Failures
- Tues, Aug 24, 2021|9:00 - 11:00 am CDT

Pavement Design
- Wed, Aug 25, 2021|8:30 am - 4:30 pm CDT

Construction Cost Estimating
- Thurs, Aug 26, 2021|8:30 am - 3:50 pm CDT

International Building Code 2021
- Thurs, Aug 26, 2021|10:00 am - 2:30 pm CDT
- Fri, Aug 27, 2021|10:00 am - 1:30 pm CDT

Stormwater Basins and Underground Systems
- Fri, Aug 27, 2021|9:00 am - 4:30 pm CDT

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