

HalfMoon Education Live Continuing Education Webinars

Introduction to HEC-HMS Modeling

Online - Friday, September 2, 2022 | 8:30 am - 4:00 pm CDT

Credits:

Engineers: 6.0 PDHs

Landscape Architects: 6.0 HSW CE Hours

LA CES: 6.0 HSW PDHs

Floodplain Managers: 6.0 ASFPM CECs

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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PREFERRED
EDUCATION
PROVIDER

Webinar Agenda | Friday, September 2, 2022 | 8:30 am - 4:00 pm CDT (including a 60-min. break)

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

Tuition

\$319 for individual registration

\$289 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

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Presented by Chris Naidu

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 (geoHMSO, HEC River Analysis System, US Environmental Protection Agency Storm Water Management Model (EPA SWMM), StormCad, and CulvertMaster.

Can't Attend? Order the Webinar as an On-Demand Package!

Recordings of this webinar are available for purchase. See registration panel 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.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for engineers and 6.0 HSW continuing education hours for landscape architects in most 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 and landscape architects via its registration with the Landscape Architecture Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §79-1.5(i)(2)). Other states do not preapprove continuing education providers or courses.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

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

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

Learn More and Register:

www.halfmoonseminars.org

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