

Agenda

Presented by Mark D. Jones, P.E.

Working with the HEC-RAS and the HEC-RAS User Interface

- Development of HEC-RAS software
- What HEC-RAS program does, and what it does not do
- Applications for HEC-RAS models
- File management
- Data entry and editing
- Displays, mapping, animations and reporting

Identifying Webinar Case Study and Collecting Information

- Exploring the project
- Need for modeling
- Assembling necessary information for model

Using HEC-RAS to Calculate Steady Flow Water Surface Profiles

- Types of flow: uniform flow, rapidly and gradually varied flow
- Data required
- Locating cross sections
- Setting boundary conditions
- Calculating water profiles in HEC-RAS

Working with the HEC-RAS User Interface

- File management
- Data entry and editing
- Displays, mapping, animations and reporting

Creating a Steady Flow Simulation

- Modeling for standard stream flow
- Project file setup
- Setting geometry and boundary conditions
- Modeling tips

Adding Special Elements to the Model

- Adding a bridge and a culvert
- Lateral and diversion structures

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Creating a HEC-RAS Model

Live, Interactive Webinar - Tuesday, June 28, 2022

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



Learning Objectives

You'll be able to:

Learn what the HEC-RAS program does, and what it does not do

Work with the HEC-RAS user interface

Explore a project case study and collect information for modeling

Calculate a steady flow water surface profile

Model for standard stream flow

Add a bridge and culvert to a model

HalfMoon Education Live Webinars

Creating a HEC-RAS Model

Live, Interactive Webinar - Tuesday, June 28, 2022



Learn about working with HEC-RAS and the HEC-RAS user interface

Assemble necessary information for creating a HEC-RAS model

Use HEC-RAS to calculate steady flow water surface profiles

Discuss file management, displays, mapping animations and reporting

Set geometry and boundary conditions

Learn about adding a bridge and a culvert to the model

Continuing Education Credits

Professional Engineers
6.5 PDHs

Landscape Architects
6.5 HSW CE Hours
LA CES Pending

Floodplain Managers
6.5 ASFPD CECs

Geologists
6.5 PDHs/CE Hours



Faculty

Mark D. Jones, P.E. *Principal, Hartech Engineering & Consulting, LLC*
Mr. Jones, PE is president of Hartech Engineering which was founded in 2007 as a multi-discipline civil engineering consulting firm providing infrastructure, development and municipal design services for the public and private sectors. Bringing over 30 years of engineering expertise along with specific state-of-the-art, computer-aided technology to achieve efficient, cost saving design solutions, he also provides hydrology and hydraulic studies and reports along with general civil engineering support for prime consultants to PennDOT or local municipality projects. Mr. Jones is a licensed pilot and studied Military Civil Engineering while serving in the USAF and continues his Masters education locally through Penn State. Additionally, he is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 11:45 am - 12:15 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:15 - 4:00 pm CDT

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.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

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Additional Learning

Aerial Mapping Technologies and Procedures
- Tues, May 24, 2022 | 8:30 am - 5:00 pm CDT

How to Design a Stormwater Management System for Residential Sites
- Tues, May 24, 2022 | 2:00 - 4:00 pm CDT

Flood-Resistant Design and Construction
- Wed, May 25, 2022 | 11:00 am - 2:00 pm CDT
- Thurs, May 26, 2022 | 11:00 am - 3:00 pm CDT

Soil Mechanics, Bearing Capacity and Slope Stabilization
- Wed, May 25, 2022 | 8:30 am - 4:30 pm CDT

Federal Wetlands Science, Law, and Compliance
- Fri, June 3, 2022 | 9:00 am - 4:00 pm CDT

Continuing Education Credit Information
This webinar is open to the public and offers 6.5 PDHs to professional engineers in all states and 6.5 HSW continuing education hours to landscape architects in most 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 Landscape Architecture 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 Landscape Architecture Continuing Education System has approved HalfMoon Education as a provider of continuing education. This course has been submitted for LA CES approval and is currently pending. Only full participation is reportable to the LA CES.

This webinar has been approved by the Association of State Floodplain Managers for 6.5 CECs for floodplain managers.

This webinar offers 6.5 continuing education hours/PDHs to geologists in most states with continuing education requirements. No credit is offered to geologists in Delaware, North Carolina or South Carolina.

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

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).

Added Value: Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
(Must attend live webinar to earn live webinar credits)

National Electrical Code 2020: Grounding and Bonding
- Tues, June 7, 2022 | 8:30 am - 5:00 pm CDT

Deep Foundations and Excavations
- Wed, June 8, 2022 | 8:30 am - 4:30 pm CDT

Open Channel Hydraulics and Design
- Fri, June 10, 2022 | 8:30 am - 4:30 pm CDT

Seismic Ground Motions for Seismic Design
- Thurs, June 16, 2022 | 8:30 am - 4:30 pm CDT

Project Management for Engineers
- Tues, June 21, 2022 | 8:30 am - 4:30 pm CDT

Foundation Damage and Repair: Science, Materials and Techniques
- Wed, June 22, 2022 | 8:30 am - 4:30 pm CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org

Registration

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Complete the entire form. Attach duplicates if necessary.	() I need special accommodations. Please contact me.
Tuition	
() I will be attending the live webinar. Single Registrant - \$319.00 . Two or more registrants from the same company registering at the same time - \$289.00 each.	
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