

Agenda

Presented by Nur Yazdani, Ph.D., P.E., F. ASCE, F. ACI, F. SEI

Agenda Day One

Bridge Design

AASHTO LRFD bridge design specifications
LRFD method of bridge design
HL-93 loads, load combinations and resistance factors

Bridge Design Types

Prestressed concrete bridges
Bridge deck design
Steel bridges
Timber bridges

Agenda Day Two

Bridge Inspection and Evaluation

Bridge inspection types and reporting
Visual vs. in-depth inspection
Bridge evaluation using AASHTO

Bridge Repair and Rehabilitation

Bridge damage types
Superstructure repair and rehabilitation
• Girder, deck, railing
Substructure repair and rehabilitation
• Bent cap and piers
Decision making on repair or replacement

Case Studies

Review of evaluation and repair

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar 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.

Highway Bridge Design, Evaluation, Inspection and Rehabilitation

Online - Tues., August 9 and Wed., July 26, 2022

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PO Box 278
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Learning Objectives

You'll be able to:

Discuss LRFD bridge design specifications of the American Association of State Highway and Transportation Officials (AASHTO).

Explore bridge design types, including prestressed concrete bridges, steel bridges and timber bridges.

Get tips on bridge inspection, evaluation and reporting.

Identify types of damage to bridge structure, and evaluate repair and replacement options.

Examine case studies that feature bridge damage, evaluation and repair options.



HalfMoon Education Live Webinars

Highway Bridge Design, Evaluation, Inspection and Rehabilitation

Live, Interactive Webinar

Tuesday, August 9 and Wednesday, August 10, 2022



Examine load combinations and resistance factors for bridge design

Analyze bridge design types, including prestressed concrete, steel and timber

Discuss bridge evaluation using AASHTO

Explore superstructure repair and rehabilitation on the girders, decks and railings

Review actual case studies

Continuing Education Credits

Professional Engineers

7.0 PDHs

International Code Council

.7 CEUs (Building)

Architects

7.0 HSW CE Hours
7.0 AIA LU | HSW

Certified Planners

CM | 7



Faculty



Nur Yazdani, Ph.D., P.E., F. ASCE, F.ACI, F.SEI is a professor and past chairperson at the Civil Engineering Department at the University of Texas at Arlington. He received his MS and PhD degrees in Structural Engineering from the University of Oklahoma, Norman, and the Univiversity of Maryland, College Park, respectively. A Fellow of the American Society of Civil Engineers (ASCE), the American Concrete Institute (ACI), and the ASCE Structural Engineering Institute (SEI), he is the author or co-author of more than 180 articles in journals and proceedings and an invited speaker at conferences and seminars. Dr. Yazdani is well-known for his research on bridge design, evaluation and rehabilitation, sustainable technologies for the built environment, resilient and high performing infrastructure, Non-Destructive Evaluation (NDE), concrete properties, coastal infrastructure and building codes. He has a P.E. license from the state of Texas. Dr Yazdani has received numerous awards for his teaching and research accomplishments and secured more than \$18 million from research projects. Funding sources have included a wide variety of federal, state, and local sources, such as the National Science Foundation (NSF), FEMA, USDOT, TxDOT and FLDOT. Research results have been widely adopted and practiced by state and federal agencies. He has been an active consultant to local, state, international and private entities for many years. Clients have included the World Bank, International Code Council (ICC), the Kingdom of Saudi Arabia, the Dallas Cowboys team, Texas school districts, Texas Motor Speedway, City of Benbrook, Texas, and the FLDOT. Much of the consulting work has focused on bridge and culvert design, evaluation, rehabilitation, and evaluation, NDE, material characterization and structural hazard mitigation, preparedness, and recovery (wind, flood, seismic, blast, fire, hail, impact). The work has encompassed experimental, numerical, and field work, as well as the development, adaptation and implementation of building and bridge codes/specifications (ACI, AASHTO, IBC). Dr. Yazdani has been very active in national societies, such as the ASCE, ACI and the Transportation Research Board (TRB). Leadership roles have included the chair of the ACI-SEI Committee 343 on Concrete Bridge Design, SEI Committee on Retrofit of Structures under Dynamic Loads, SEI Membership Committee and SEI Fort Worth Branch. He leads the Disaster Mitigation Center (DMC) and the NDE Laboratory at UT Arlington.

Webinar Information

Day One: Tuesday, August 9, 2022
8:30 am - 12:15 pm CDT (including a 15-min. break)

Day Two: Wednesday, August 10, 2022
8:30 am - 12:15 pm CDT (including a 15-min. break)
(please log into the webinar 15 - 30 minutes before start time)

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

Easements and Rights-of-Way
- Thurs, June 23, 2022 | 8:30 am - 4:00 pm CDT

Slope Stabilization and Landslide Prevention
- Thurs, June 23, 2022 | 8:30 am - 3:30 pm CDT

Drones in Construction
- Fri, June 24, 2022 | 9:30 am - 4:50 pm CDT

Creating a HEC-RAS Model
- Tues, June 28, 2022 | 8:30 am - 4:00 pm CDT

Pedestrian and Bicycle Transportation Planning and Design
- Wed, June 29, 2022 | 9:00 am - 3:50 pm CDT

AIA Contract Document Workshop
- Wed, July 6, 2022 | 8:30 am - 4:30 pm CDT

Construction CostEstimating Workshop: Estimating a Small Commercial Building
- Mon, July 11, 2022 | 8:30 - 4:00 pm CDT

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

Continuing Education Credit Information
This webinar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to licensed architects 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 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 this course for 7.0 LU | HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 7 for Certified Planners.

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 - 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)

Registration

Highway Bridge Design, Evaluation, Inspection and Rehabilitation
Live, Interactive Webinar - Tuesday, August 9 and Wednesday, August 10, 2022

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.	
Fax: 715-835-6066	Code:	() I need special accommodations. Please contact me.
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		

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.

() **I am not attending.** Please send me the webinar recording:

☐ Streamable MP4 Video/PDF Manual for **\$329.00**.

☐ USB Video/PDF Manual for **\$329.00**.

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