

Agenda

Presented by Kristofor L. Kvarfordt

Understanding Stormwater Permit Requirements and Procedures

- Background and development of national and state regulations and permit requirements
- Activities exempt from construction general stormwater permit requirements
- Complying with NPDES and Utah Department of Environmental Quality regulations
 - Notice of intent requirements
 - What the permit covers and does not cover
 - Application process
 - General requirements and standard conditions
 - Implementing, monitoring and assessing SWPPPs

Understanding and Applying the Science of Stormwater

- Hydrology, soil science and drainage
- Identifying consequences of storm events
- Stormwater modeling
- Runoff reduction, routing and storage
- Infiltration and percolation

Choosing Appropriate Stormwater Best Management Practices (BMPs)

- Stormwater management planning
 - Sizing criteria
- Green infrastructure practices
 - Preservation of natural features and conservation design
 - Reducing impervious cover
- Green management techniques
 - Conservation of natural areas
 - Vegetated swales
 - Stream daylighting
 - Green roofs
 - Rain barrels/cisterns
 - Proprietary practices
 - Riparian buffers and filter strips
 - Disconnected runoff
 - Rain gardens
 - Stormwater planters
 - Porous pavement

Developing Stormwater Pollution Prevention Plans (SWPPP)

- Including required elements
- Assessing building sites
- Choosing best management practices (BMPs)
- Planning for required inspection, maintenance and recordkeeping
- Obtaining plan certification
- Implementing SWPPPs

Developing Plans for Inspection, Monitoring, Maintenance and Recordkeeping

- Understanding the science and terminology of stormwater management and monitoring
- Implementing monitoring plans
- Reviewing stormwater BMP case studies

Stormwater Management 2019
Salt Lake City, UT - Friday, September 20, 2019

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Learning Objectives

You'll be able to:

Comply with National Pollution Discharge Elimination System requirements for obtaining stormwater permits for new construction.

Identify the consequences of storm events and use stormwater models to predict runoff and routing.

Describe the contents of stormwater pollution prevention plans, including best management practices and plans for required inspection, maintenance and record keeping.

Choose stormwater best management practices, including conservation of natural areas, riparian buffers, vegetated swales, rain gardens, cisterns and porous pavement.



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Learn about the science of stormwater

Understand stormwater permit requirements and procedures

Identify appropriate stormwater best management practices (BMPs)

Examine stormwater pollution prevention plans (SWPPPs)

Discuss stormwater modeling

Develop plans for inspection, monitoring, maintenance and recordkeeping

Continuing Education Credits

Professional Engineers

7.0 Professional Ed. Hours/PDHs

Architects

7.0 HSW Continuing Ed. Hours

7.0 AIA LU|HSW

Landscape Architects

7.0 HSW Contact Hours

7.0 LA/CES HSW PDHs

Floodplain Managers

7.0 ASFPM CECs



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Faculty

Kristofor L. Kvarfordt *Senior Landscape Architect/Land Planner at Cache Landmark Engineering Inc.*

Mr. Kvarfordt is the senior landscape architect/land planner at Cache Landmark Engineering, Inc., located in Logan, Utah. During his 17-year career, he has worked on a broad range of projects throughout Utah, Idaho, Nevada, and California. His experience includes large scale planning, trail and open space master planning, campus master planning and detailed site design and construction management for commercial and institutional projects.

He has had direct responsibility for management and construction observation for several rainwater harvesting, green infrastructure and low impact development projects throughout Cache County and on the Utah State University campus. Mr. Kvarfordt works closely with civil engineers and other project specialists to create plans that are well integrated into all the various components of a project. His expertise is on developing site solutions that meet the needs of the user, while integrating innovative stormwater collection, water sensitivity, treatment and re-use solutions.

Mr. Kvarfordt also serves as an adjunct instructor in the Department of Landscape Architecture and Environmental Planning at Utah State University. He is a licensed landscape architect in Utah, Idaho and Wyoming. Mr. Kvarfordt received his Bachelor of Landscape Architecture and Master of Landscape Architecture degrees from Utah State University.

Seminar Information

Marriott University Park
480 Wakara Way
Salt Lake City, UT 84108
(801) 581-1000

Tuition
\$289 for individual registration
\$269 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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

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

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 professional education hours/PDHs to professional engineers and 7.0 HSW continuing education hours to architects in most states, including Utah. It also offers Utah landscape architects 7.0 HSW contact hours. Educators and courses are not subject to preapproval in Utah.

This seminar is approved by the American Institute of Architects for 7.0 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES. Visit www.halfmoonseminars.org for complete AIA information under this course listing.

The Association of State Floodplain Managers has approved this activity for 7.0 CECs.

Attendance will be monitored and reported, as required. Attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

Off-grid Master Class

- **Off-grid Master Class, Part I**
Thurs., August 1, 2019, 11:00 AM - 2:15 PM CDT
- **Off-grid Master Class, Part II**
Fri., August 2, 2019, 11:00 AM - 2:15 PM CDT

Stormwater Infiltration

- **Infiltration and Soil: Water Science**
Thurs., August 8, 2019, 11:00 AM - 12:30 PM CDT
- **Infiltrating Stormwater and Maximizing Infiltration**
Thurs., August 8, 2019, 1:00 - 2:30 PM CDT
- **Improving Infiltration with Low Impact Development Techniques**
Fri., August 9, 2019, 11:00 AM - 12:30 PM CDT

Structural Design and Ethics

- **Structural Design: Ethical Issues**
Thurs., August 15, 2019, 11:00 AM - 12:00 PM CDT
- **Structural Design: Gravity Forces**
Thurs., August 15, 2019, 12:30 - 2:30 PM CDT
- **Structural Design: Lateral Forces**
Fri., August 16, 2019, 11:00 AM - 12:30 PM CDT
- **Structural Design: Wind, Seismic and Connections**
Fri., August 16, 2019, 1:00 - 2:30 PM CDT

Proposal Writing

Wed., August 7, 2019, 11:00 AM - 3:30 PM CDT

Technical Writing

- **Planning Documents**
Wed., August 14, 2019, 11:00 AM - 1:00 PM CDT
- **Writing Documents**
Wednesday, August 14, 2019, 1:30 - 3:30 PM CDT
- **Revising and Editing Documents**
Thurs., August 15, 2019, 11:00 AM - 1:00 PM CDT
- **Technical Writing Best Practices**
Thurs., August 15, 2019, 1:30 - 3:30 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. 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.

Registration

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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____
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		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.
		()  I need special accommodations. Please contact me.

Tuition

- () **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.
- () **I am not attending.** Please send me the self-study package:
- ☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.
 - ☐ CD/Manual Package for **\$289.00**.
- (Please allow four weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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