

Agenda

Presented by Lloyd Ntuk

Accommodating Multiple Purposes of Site Engineering

Engineering for built elements
Slope stabilization
Stormwater management
Landscape aesthetics
Sustainability goals: minimizing disturbance and preserving natural features

Considering the Impact of Soils and Landforms

Understanding the role of soils
Soil characteristics, classification and engineering properties
Identifying the underlying geological conditions
Understanding the watershed
Considering site topography: high points, low points and plane surfaces

Site Engineering for Stormwater Management and Erosion Control

Reviewing state and local regulations
Drainage systems
Sediment traps and basins
Buffer zones
Slope stabilization
Establishing proper building material handling and storage
Establishing equipment/vehicle fueling and maintenance practices

Earthwork Safety

Weight of soil and excavation hazards
Underground installations
Water accumulation

Site Plans

Site plan contents
Soil investigation and considerations
Surface water and groundwater considerations
Excavation specifications and hauling
Construction grade staking

Site Grading

Grading for roads, sidewalks and paths
Grading for stairs and ramps
Grading for retaining walls
Grading slopes

Site Program Management

Initiation, planning, execution and closure
Program governance
Quality control

Case Study: Applying Science and Technology to a Site Engineering Problem

Practical Site Engineering: Science and Techniques
Fairfax, VA - Wednesday, November 14, 2018

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Learning Objectives

You'll be able to:

Engineer construction sites for slope stabilization, stormwater management, and landscape aesthetics.

Consider the impact of soil characteristics and engineering properties.

Maintain site safety while doing earthwork.

Engineer for stormwater management and erosion control.

Improve site grading for roads, sidewalks, and paths.

Use case studies to apply science and technology to a site engineering problem.



Practical Site Engineering: Science and Techniques

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Accommodate multiple purposes of site engineering

Consider the impact of soils and landforms

Utilize site engineering to manage stormwater and control erosion

Discuss weight of soil and prevent excavation hazards

Develop site plans

Grade for roads, sidewalks, stairs and ramps

Continuing Education Credits

Professional Engineers

7.0 Continuing Ed. Hours

Architects

7.0 Continuing Ed. Hours (HSW)

7.0 AIA HSW Learning Units

Landscape Architects

7.0 Continuing Ed. Hours (HSW)

7.0 LA CES HSW PDHs

Contractors

Non-Credit Continuing Ed.



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Faculty

Lloyd Ntuk *Principal, LAND Engineering, PLC - Washington D.C. Metropolitan Area*

Mr. Ntuk is a civil engineer with nearly 20 years of experience in the land development industry. He is the managing principal for LAND[Engineering, PLC, a civil engineering design firm focused on site planning, green building consulting, and construction management. Mr. Ntuk received his B.S. degree in Civil Environmental and Infrastructure Engineering from George Mason University. He spends 20 percent of his time as an executive, 30 percent as a designer, 40 percent as a geek, and 30 percent solving complex math problems.

Here’s what past attendees had to say about the program and presenter Lloyd Ntuk:

“One of the best courses I have taken from your offerings.” – *Engineer-Project Manager*

“Instructor held our attention extremely well.” – *Civil Engineer*

“Good delivery, clear.” – *Landscape Architect*

“Very thorough & knowledgeable.” – *Civil Engineer*

Seminar Information

Hilton Garden Inn Fairfax
3950 Fair Ridge Drive
Fairfax, VA 22033
(703) 385-7774

Tuition

\$279 for individual registration
\$259 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 CD/manual 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 continuing education hours to engineers, architects, and landscape architects (HSW) in Virginia. Educators and courses are not subject to preapproval in Virginia.

This event has been approved by the American Institute of Architects Continuing Education System for 7.0 HSW Learning Units (Sponsor No. J885) and by the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Full attendance is required for course attendance reporting to AIA/CES and LA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects and landscape architects.

This course offers a non-credit continuing education opportunity to contraction contractors. It has not been preapproved in any state with contractor continuing education requirements.

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

Additional Learning

Webinar Series

Stormwater Management Systems

- **Basics of Stormwater Regulations and Requirements, Including New EPA Regulations**
Thurs., Oct. 4, 2018, 11:00 AM - 12:00 PM CDT
- **Working with the Regulator**
Thurs., Oct. 4, 2018, 12:30 - 2:00 PM CDT
- **Site Planning and Choosing Best Management Practices**
Fri., Oct. 5, 2018, 11:00 AM - 12:00 PM CDT
- **Long-term Stormwater Management Practices**
Fri., Oct. 5, 2018, 12:30 - 2:00 PM CDT

Floodplain Mapping and Regulation

- **Floods, Floodplains and Introduction to Floodplain Management**
Wed., Oct. 10, 2018, 11:00 AM - 12:30 PM CDT
- **Flood Maps and Flood Zones**
Wed., Oct. 10, 2018, 1:00 - 2:30 PM CDT
- **Elevations in the National Flood Insurance Program (NFIP) and Floodplain Regulation**
Thurs., Oct. 11, 2018, 11:00 AM - 12:30 PM CDT
- **Practical Floodplain Management**
Thurs., Oct. 11, 2018, 1:00 - 2:30 PM CDT

HEC-RAS Webinar Series

- **Hydraulic Principles and Applications**
Thurs., Oct. 18, 2018, 11:00 AM - 1:00 PM CDT
- **Working with the HEC-RAS User Interface**
Thurs., Oct. 18, 2018, 1:30 - 3:00 PM CDT
- **Water Surface Profiling**
Fri., Oct. 19, 2018, 11:00 AM - 1:00 PM CDT
- **Steady Flow Surface Profile Demonstrations**
Fri., Oct. 19, 2018, 1:30 - 3:30 PM CDT

Construction Cost Estimating

- **Introduction to Cost Estimating**
Thurs., Oct. 25, 2018, 11:00 AM - 12:30 PM CDT
- **Cost Components – A Closer Look at the Estimates**
Thurs., Oct. 25, 2018, 1:00 - 3:00 PM CDT
- **Cost Estimate Organization and Examples**
Fri., Oct. 26, 2018, 11:00 AM - 1:00 PM CDT
- **Cost Estimating Topics**
Fri., Oct. 26, 2018, 1:30 - 3:00 PM CDT

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

Can’t Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Practical Site Engineering: *Science and Techniques*

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How to Register		Registrant Information
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Complete the entire form. Attach duplicates if necessary.		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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.
- () **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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