

Agenda

Fundamental Site Design Considerations	<i>D.P. Messmer</i>
Flooding	Erosion
Vegetation	Runoff and pollution prevention
Understanding and Complying with Legal Requirements	<i>D.P. Messmer</i>
ADA design considerations	
NPDES site design requirements	
Local ordinances and standards	
Zoning regulations	
Creating Site Plans	<i>J. Brem</i>
Grading plans	Drainage plans
Zoning	Site plan approval
Site Evaluation	<i>J. Brem</i>
Surveying a site	Soil testing
NOAA Atlas 14 Precipitation Frequency Atlas	
Stormwater modeling	
Temporary Drainage Plans During Construction	<i>D.P. Messmer</i>
Temporary drainage design	
Site Drainage Design	<i>D.P. Messmer</i>
Existing drainage patterns	Proposed drainage schemes
Regulatory and permitting considerations	
Challenges and potential problems	
Design software	
Types of Grading	<i>D.P. Messmer</i>
Regrading	Architectural grading
Landscape grading	Rough, finished and final grading
Grade Setting and Staking	<i>D.P. Messmer</i>
Creating a contour plan	Using grade setting equipment
Using string lines and laser levels	
Setting grade stakes	
Excavating and Filling	<i>D.P. Messmer</i>
Excavating rock and soil	Bringing in fill
Compacting and grading	Excavation safety

Construction Site Grading and Drainage

Live, Interactive Webinar - Tuesday, August 22, 2023

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



Learning Objectives

You'll be able to:

Explore site design considerations, including flooding, erosion, vegetation and runoff prevention.

Create grading plans and site drainage plans.

Comply with zoning regulations.

Consider precipitation history and review existing drainage patterns.

Discuss rough, finished and final grading.

Use grade setting equipment, string lines and laser levels.

HalfMoon Education Live Webinars

Construction Site Grading and Drainage

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Comply with accessibility, stormwater and land use regulations during site design

Create temporary and permanent site drainage plans

Distinguish between architectural grading, landscape grading and final grading

Create contour plans and set grading stakes

Get tips on excavation, using fill and maintaining earthwork safety

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours
6.5 AIA LU | HSW

Landscape Architects
6.5 HSW CE Hours
6.5 LA CES HSW PDHs

International Code Council
.65 CEUs (Sitework)



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Webinar Information

Log into Webinar 8:30 - 9:00 am CDT	Break 12:15 - 12:45 pm CDT
Morning Session 9:00 am - 12:15 pm CDT	Afternoon Session 12:45 - 4:30 pm CDT

Tuition
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Faculty

Daniel Messmer P.E. D. GE
Project Manager with The Gateway Engineers, Inc., in Pittsburgh
Mr. Messmer has over 30 years of engineering experience in analysis, design, plan/specification development, and project management/ personnel supervision for geotechnical, foundation and structural engineering projects in the transportation, industrial, municipal and commercial fields of civil engineering. Throughout his career he has placed an emphasis on quality control and staff training. Mr. Messmer is a member of the American Society of Civil Engineers, the American Concrete Institute, the American Society of Highway Engineers and the Society of American Military Engineers. He earned his B.S. degree in Civil Engineering from the University of Pittsburgh. Mr. Messmer was accepted into the Academy of Geo-Professionals in 2013.

Jeffrey A. Brem, P.E.
Mr. Brem is a registered professional engineer in Massachusetts, New Hampshire and Maine. He has led his own small civil engineering and land surveying practice for over 27 years with two offices and up to 25 employees. His experience includes designing private land developments, storm water management systems, sanitary sewer systems, wastewater treatment facilities, and roadways, and providing surveying, construction management, and a host of other professional services primarily for private, for-profit companies. He has been involved in the design of over 3000 residential single-family house lots many of which were open space or cluster developments, thousands of condominium units, and over 2 million square feet of commercial/ industrial/institutional space. He has advised the MassDEP in numerous task forces and committees including as a present full member of the Stormwater Advisory Committee and on the Title 5, Septic System Stakeholders Group. He is currently the president, past treasurer and member of the Board of Directors for HBRAM (the Massachusetts Homebuilders Association), past president of NEBA, and a national delegate of the National Association of Home Builders (NAHB) based in Washington, DC. He is a proud 30+ year member of the Westford Rotary Club. He has co-authored, with Harvard Law School Professors Joseph William Singer and Brandon Storm, a legal case study on real estate development entitled the *Case of the Interfaith Neighbors*, July 2016 (PSW021-SM01).

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers, 6.5 HSW continuing education hours for licensed architects, and 6.5 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

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).

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6.5 HSW LUs (AIA) | 6.5 HSW PDHs (LA CES)