

Credit Information

Texas Septic Systems

This webinar is open to the public and offers 6.0 PDHs to professional engineers and 6.0 HSW CEPHs to architects licensed in Texas. Educators and courses are not subject to pre-approval in Texas.

Engineers and architects seeking continuing education credit in other states will be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

The American Institute of Architects Continuing Education System has approved this course for 6.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.0 for Certified Planners.

Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Texas Retaining Wall Design and Slope Stabilization Techniques

This webinar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW CEPHs to architects and landscape architects licensed in Texas. Educators and courses are not subject to pre-approval in Texas.

Engineers and architects seeking continuing education credit in other states will be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to LA CES.

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

This webinar has been approved by the Association of State Floodplain Managers for 7.0 CECs for floodplain managers.

Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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

Recordings of each 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.

Live, Interactive Webinars

- Texas Septic Systems
- Texas Retaining Wall Design and Slope Stabilization Techniques

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Live, Interactive Webinars

Texas Septic Systems

- Tuesday, January 25, 2022 | 8:30 am - 4:00 pm CST

Texas Retaining Wall Design and Slope Stabilization Techniques

- Wednesday, February 2, 2022 | 8:30 am - 5:00 pm CST

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

www.halfmoonseminars.org

or call our Customer Service Department at (715) 835-5900



HalfMoon Education Live Webinars



Texas Septic Systems

Tuesday, January 25, 2022 | 8:30 am - 4:00 pm CST

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CEPHs
AIA: 6.0 LU | HSW Certified Planners: CM | 6.0



Texas Retaining Wall Design and Slope Stabilization Techniques

Wednesday, February 2, 2022 | 8:30 am - 5:00 pm CST

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CEPHs
AIA: 7.0 LU | HSW Landscape Architects: 7.0 HSW CE Hours
LA CES: 7.0 HSW PDHs Floodplain Managers: 7.0 ASFPM CECs
International Code Council: .7 CEUs (Sitework)

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Texas Septic Systems

Tuesday, January 25, 2022 | 8:30 am - 4:00 pm CST (incl. a 60-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Agenda

The Evolution of the OSSF (On-Site Sewage Facility) Program in Texas, from Primordial Soup to an 800 Pound Gorilla

- How and why the program began
- Its history as a dysfunctional, unwanted child
- The current TCEQ (Texas Commission on Environmental Quality) structure of OSSF rules and enforcement; Relationship between TCEQ and county rules
- Who's really in charge and why
- The distinction between prescriptive and performance regulations
- The (under-estimated) role that the septic system plays in property purchase and development/site planning
- Should TCEQ regulations be adhered to?

How the Size, Type and Cost of the Septic System is Determined

- TCEQ setback requirements as limiting factors (Will the water level in the well rise a couple of inches every time the owner flushes the commode?)
- What is a "site evaluator," compared to a "designer," and what is his role in planning of a septic system?
- How are septic systems SIZED in Texas?
- The water quality treatment line: from nuclear wastes to perfectly pure water (no such thing)
- Residential – the variance quality and maintenance levels from which a homeowner can choose

Types of Septic Systems Approved in Texas and Used, Especially in the South-Central Part of the Great Republic

- Basic components of sewage – hydraulic and organic loadings
- Universal components of any septic system – from raw sewage to environmentally helpful moisture
- Passive vs. active, primary treatment vs. secondary systems
- Standard systems – gravel, leaching chambers and gravel-less
- Aerobic treatment units – general structure, how they work, their advantages and disadvantages
- Spray application described; advantages and disadvantages
- Drip irrigation described; advantages and disadvantages
- New gray water rules and how to apply them
- Nutrient reductions

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Commercial – the Shocking Cost, Footprint and Long Term Maintenance Requirements

- The technical differences between residential and commercial septic systems
- The two key factors in any commercial septic system that someone must specify and through which they will assume the liability for its proper functioning
- A step-by-step, unpublished method of ENSURING that the final system will work properly
- Metrics of a finely designed system and the chemical, physical and hydraulic measurements that must be recorded
- Monitoring, inspections and repairs

Presented by Frank Aguirre *President of Frank Aguirre & Associates, Inc. San Antonio*
Mr. Aguirre, owner of Septic Systems Express, Septic System Designs of Texas and Texas Septic Systems Council, has been designing and inspecting septic systems since 1975. During that time, he has served on the board of directors for the National On-site Waste- water Recycling Association (NOWRA), and he has served as president of the Texas On-site Wastewater Association. Mr. Aguirre founded the Alamo On-site Wastewater Association and the Alamo Water & Wastewater Analysts Association. He has designed over 30,000 septic systems and is the only person in the country that has organized and sponsored a national conference specifically on how to design a septic system for a restaurant (high strength wastewater). He has been a licensed sanitarian since 1968. Mr. Aguirre received his bachelor's degree in Biology and his master's degree in Educational Psychology. Septic Systems Express designs and inspects septic systems throughout south-central Texas. He is a professional speaker and lives, part-time, in Manhattan.

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Additional Learning

Texas Land Laws and Ethics for Engineers and Surveyors

- Thurs, Dec 9, 2021 | 8:00 am - 5:30 pm CST

Soil Mechanics, Bearing Capacity and Slope Stabilization

- Fri, Dec 17, 2021 | 8:30 am - 4:30 pm CST

International Building Code 2021

- Fri, Dec 17, 2021 | 8:30 am - 5:00 pm CST

National Electrical Code 2020

- Tues, Dec 28, 2021 | 8:30 am - 5:00 pm CST

Focus on The Evolution of Turf Reinforcement Mat Technology

- Wed, Dec 29, 2021 | 10:00 am - 12:00 pm CST

Managing Construction Projects

- Wed, Dec 29, 2021 | 8:30 am - 4:30 pm CST

Parking Structure Design, Construction, and Maintenance

- Wed, Dec 29, 2021 | 8:00 am - 3:30 pm CST

Structural Forensic Engineering

- Wed, Dec 29, 2021 | 10:00 am - 1:45 pm CST
- Thurs, Dec 30, 2021 | 10:00 am - 1:45 pm CST

Residential and Small Commercial Solar Photovoltaic Energy Systems

- Thurs, Dec 30, 2021 | 8:30 am - 4:00 pm CST

Designing for Accessibility under ADA Standards and 2021 IBC

- Tues, Jan 11, 2022 | 8:30 am - 4:30 pm CST

Technical Writing Workshop for Design Professionals

- Wed, Jan 12, 2022 | 8:30 am - 5:00 pm CST

IRC Significant Changes – Chapters 1-10

- Thurs, Jan 13, 2022 | 11:00 am - 3:30 pm CST

Handling Ethical Issues in Construction

- Tues, Jan 18, 2022 | 3:00 - 5:00 pm CST

For more information and other online learning opportunities visit:
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Texas Retaining Wall Design and Slope Stabilization Techniques

Wednesday, February 2, 2022 | 8:30 am - 5:00 pm CST (incl. a 60-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CEPHs
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Agenda

Types of Retaining Walls

- Traditional cantilevered retaining walls
- Reinforced concrete walls
- Reinforced concrete masonry walls
- Soldier pile and lagging walls
- Traditional timber walls
- Traditional gravity walls
- Reinforced soil retaining walls
- Anchored retaining walls (tie-backs, soil nailing, etc.)
- Temporary retaining walls
- Over-steepened reinforced slopes
- Gabion walls
- Crib walls
- Private-sector vs. highway retaining wall systems
- Cost of retaining walls in Texas

Retaining Wall Design

- Soil design parameters
- Lateral earth pressure
- External stability
- Sliding
- Overturning
- Bearing capacity
- Settlement
- Scour
- Internal stability
- Global stability
- Special considerations for tiered retaining walls
- Backfill
- Groundwater
- Service life
- Design software

Slope Stabilization

- Science of slope stability in Texas
- Surficial vs. deep-seated slope stability
- Long term vs. short term stability
- Slope stabilization techniques
- Regrading
- Excavation and replacement
- Slope reinforcement/pinning
- Ground improvement
- Toe retaining walls

Retaining Wall and Slope Stabilization Case Histories

- Commercial, residential projects
- Highway and institutional projects
- Case histories in Texas

Presented by Mahsa Hedayati *Senior Geotechnical Engineer, Freese and Nichols, Inc.*
Dr. Hedayati is a senior geotechnical engineer at Freese and Nichols, Inc and an adjunct faculty at the University of Texas at Arlington. Her experience with geotechnical engineering includes subsurface investigations, foundation analysis and design, slope stability and seepage analysis, numerical modeling, dam rehabilitation and redesign, levees, floodwalls and drainage structures design. As an adjunct faculty, she teaches courses on computational geotechnics and the geotechnical aspects of landfill design. Dr. Hedayati earned her B.Sc. degree in Civil Engineering from Amirkabir University of Technology (Tehran Polytechnic) and her M.Sc. degree from Tehran University, where she focused on polluted soils and decontamination methods. She earned her Ph.D. degree in Geotechnical Engineering from the University of Texas at Arlington.

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