

Faculty and Credit Information

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 Wastewater 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.

Continuing Education Credit Information

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.

This event is approved by the American Institute of Architects Continuing Education System for 6.0 LU|HSW (Sponsor No. J885).

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

This seminar offers a non-credit continuing education opportunity to contractors. It has not been approved by any state contractor licensing entity for continuing education approval.

Participation will be monitored, and attendance certificates will be available after the webinar for individuals who complete the entire event, respond to monitoring prompts and earn 80% on the quiz that follows the presentation (multiple attempts allowed).

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

Recordings of this webinar are available for purchase for \$279. 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.

Texas Septic Systems

Online - Tuesday, July 28 and Wednesday, July 29, 2020



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Learning Objectives

You'll be able to:

Understand the evolution of the on-site sewage facility program in Texas.

Explore the size, type and cost of septic systems.

Review types of septic systems approved in Texas.

Examine technical differences between residential and commercial septic systems.

Review two key factors that must be specified in any commercial septic system.

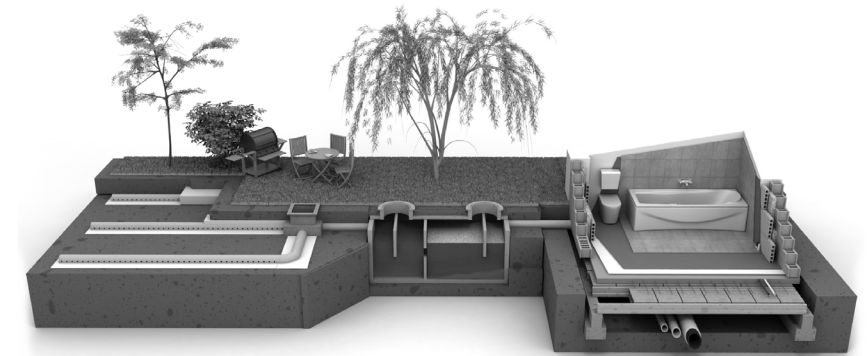
Learn about septic system maintenance requirements.



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HalfMoon Education Online Learning Texas Septic Systems

Live, Interactive Webinar Series
Tuesday, July 28 and Wednesday, July 29, 2020



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Continuing Education Credits

Professional Engineers

6.0 PDHs

Contractors

Non-Credit Continuing Ed.

Architects

6.0 HSW CEPHs/CE Hours

6.0 LU|HSW



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Agenda

Texas Septic Systems Day One

Tuesday, July 28, 2020 | 8:30 am - 12:00 pm CDT (including a 15-min. break)

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 Travis 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 their 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

Webinar Information

Tuition

- \$299** for individual registration
- \$199** for three 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
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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.

Texas Septic Systems Day Two

Wednesday, July 29, 2020 | 8:30 - 11:30 am CDT (including a 15-min. break)

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

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

Additional Learning

Webinar Series

Practical Engineering Economics

- Wed., July 8, 2020, 11:00 am – 2:45 pm CDT
- Thurs., July 9, 2020, 11:00 am – 2:45 pm CDT

Complying with the 2018 Residential International Energy Conservation Code

- Wed., July 8, 2020, 10:30 am – 3:00 pm CDT

Construction Cost Estimating and Value Engineering

- Fri., July 10, 2020, 8:30 am - 3:20 pm CDT

Geothermal Heating and Cooling: Technology and Applications

- Mon., July 13, 2020, 9:00 am – 4:30 pm CDT

For more information and other online learning opportunities visit:

www.halfmoonseminars.org/webinars/

2015 International Property Maintenance Code

- Mon., July 13, 2020, 11:00 am - 3:00 pm CDT
- Tues., July 14, 2020, 11:00 am - 3:00 pm CDT

Low Impact Development

- Wed., July 15, 2020, 10:00 am - 2:05 pm CDT
- Thurs., July 16, 2020, 10:00 am - 12:45 pm CDT

National Electrical Code 2017: Grounding & Bonding

- Wed., July 15, 2020, 11:00 am – 3:00 pm CDT
- Thurs., July 16, 2020, 11:00 am – 2:30 pm CDT

Texas Land Laws for Engineers and Surveyors

- Wed., July 22, 2020, 8:00 am - 5:00 pm CDT

Registration

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