

HalfMoon Education Live Continuing Education Webinars

Septic System Design, Construction and Maintenance in Alaska

Online - Tuesday, November 19, 2024 | 8:00 am - 3:50 pm AKST

Credits: Professional Engineers: 6.5 PDHs

Architects: 6.5 HSW CE Hours | AIA: 6.5 LU|HSW

International Code Council: .65 CEUs (Building)

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Introduction/Overview of Onsite Wastewater Treatment Technologies
Technology and operation of conventional wastewater treatment systems
Problems with conventional onsite systems

Definition/Common Terms

Regulation, Permitting and Sustainability of Onsite Wastewater Treatment Systems
Federal, state and local regulation of systems
Coordinating system regulation with surface and groundwater regulations
Treatment of systems under LEED certification systems
Permit requirements and procedures
Permitting procedures

Evaluating Sites and Setting Treatment Goals
System boundaries and loadings
Analyzing the receiving environment
Evaluating landscape and soil types
Nitrogen and pathogen removal
Treatment/removal of phosphorus and other pollutants
Mapping the site

Soils Investigation
Location and number of test holes
Logging of soil profile (soil classification)
Groundwater levels and monitor Percolation testing
Practice problems

Estimating Sewage Flows
Residential flows Commercial flows
Example problems (three problems)

Conventional Treatment System Selection and Design
Types of wastewater systems Design considerations
System performance Initial system design
Examples (three examples)

Alternative and Sustainable Treatment Technologies
Aerobic treatment systems
Peat biofilter wastewater treatment systems
Drip dispersal wastewater disposal systems
Fixed-activated sludge treatment Recirculating sand filters
Trickling filters Sequencing batch reactors
Vegetated submerged beds Evapotranspiration
Enhanced nutrient removal
Stabilization ponds and constructed wetlands

Management Program for Onsite Wastewater
Treatment systems Monitoring of systems
Developing maintenance plans Inspection procedures
Repair options

Tuition: \$339 for individual registration.
\$237 per attendee for group registrations of two or more people registering at the same time for the same program.
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Can't Attend? Order the Webinar as an On-Demand Package!
Recordings of this webinar are available for purchase. See details online for more information.

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in Alaska. The Alaska State Board of Registration for Architects, Engineer and Land Surveyors does not pre-approve continuing education activities.

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

Steven R. Pannone, P.E. *Fellow with ASCE Pannone Engineering Services LLC, in Anchorage, Alaska*
Mr. Pannone is a registered civil and environmental engineer specializing in the planning, design and construction of sanitation facilities. He is a lifelong Alaskan with more than 40 years of engineering and construction experience. Mr. Pannone's background includes experience in survey, design, construction, testing and monitoring of engineered projects. He has worked all over the state of Alaska, including extensive time in the arctic and remote regions. Mr. Pannone takes a practical approach to design, considering who is going to be doing the construction and how it will be done. He has hands-on experience in the construction of water and wastewater systems, buildings and large earth works projects. Mr. Pannone is a certified ADEC water/wastewater designer and sanitary surveyor. He is the founder of Pannone Engineering Services LLC. This privately-owned company was founded in February of 1991. The company specializes in the design, testing and installation of on-site water and wastewater systems. Pannone Engineering Services (PES) has performed engineering designs, analysis and evaluations of water and wastewater systems throughout Alaska. The types of systems have ranged from small single-family septic systems to large commercial systems serving greater than 100 people daily. PES typically tests between 90 and 150 septic systems a year and designs approximately 50 to 75 new or upgraded systems. PES has an excellent working relationship with the Municipality of Anchorage and the State Department of Environmental Conservation. Mr. Pannone is licensed in Washington, Oregon, Idaho, Montana, Massachusetts, Nevada, and Florida.

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).

On-Demand Credits: The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request: 6.5 HSW LUs (AIA)