

Emerging: AI, 1,4-Dioxane and Regulatory News

NEW COURSE!

BREAKFAST AND LUNCH PROVIDED COMPLIMENTS OF RVE, AN ARDURRA COMPANY

Course Description:

- 1) Integrating AI and Machine Learning in Modern Water and Wastewater Treatment Systems** introduces water/wastewater professionals to practical AI applications across treatment, distribution, collection, stormwater, asset management, and capital planning, with emphasis on data quality, cybersecurity, and human oversight. Built for operators, supervisors, engineers, and utility directors, it covers six modules spanning AI fundamentals, governance, cross-system applications, asset/capital planning, decision support, and building an AI roadmap. Participants leave able to explain core AI/ML concepts, identify practical applications, describe governance and cybersecurity requirements, apply AI to predictive maintenance and capital planning, and pilot a high-value use case at their utility. Instruction is practical and operator-focused, using case studies, discussion, and scenario-based exercises.
- 2) 1,4-Dioxane, Should be on Every Operator’s Radar:** 1,4-Dioxane is an emerging, highly water-soluble contaminant increasingly targeted by regulators; operators should be proactive about monitoring, source assessment, and capital planning. This presentation will cover planning, current available treatment options, and review case studies from treatment systems currently in use to guide operators in planning and treating 1,4-Dioxane.
- 3) Operator Licensing, En-suite and More:** This session will offer the latest information on NJDEP operator licensing requirements and procedures, En-suite and some technology updates. Attendees will have the opportunity to ask questions about anything related to exam applications and licensure.

Agenda:

8:00-8:30	Sign-in
8:30-10:00	Integrating AI (Part 1)
10:00-10:15	Break
10:15-10:45	Integrating AI (Part 2)
10:45-11:30	1,4-Dioxane Should Be On Every Operator’s Radar
11:30-12:00	Break, Grab Lunch
12:00-1:15	Operator Licensing, En-Suite and More
1:15	Paperwork and Dismissal

Instructors:

Jim Knapp is the founder of Sommers Valley Associates and Sommers Valley Academy. He works with water and wastewater utilities to apply AI, SCADA, automation, and data management solutions that improve utility operations, compliance, and decision-making. He develops and delivers continuing education programs focused on practical, operator-centered applications of emerging technologies

Jim Cartafalsa joined DELCORA in November 2010 as a Collection System Helper, rising to Collection System Foreman and then Collection Systems Manager and Information Officer, modernizing DELCORA's asset management and mapping through digitized Cityworks/ESRI ArcGIS and field tablet technology. He now oversees collection system operations, applying AI to line cleaning, CCTV inspections, and rehabilitation. He holds a bachelor’s and master’s degree and is NASSCO-certified, a Certified Vibration Analyst, and a licensed operator.

Daniel Beach has worked as an engineering consultant since 2005. He is a Licensed Operator with experience helping over 60 water and wastewater facilities throughout NJ and PA. He routinely consults for systems on new regulations, emerging contaminants, and optimizing operations.

Joe Durocher is a Section Chief in the Bureau of Water System Engineering with 25 years of experience in the NJDEP’s drinking water program. Other instructors from NJDEP will also be providing information.

Date and Location:

September 15, 2026 - Remington & Vernick Engineers, 2059 Springdale Rd, Cherry Hill

Accreditation:

Certified for 4.0 Training Contact Hours for NJ-Licensed Water Operators. TCH Course Number: 04-082615-10
Certified for 4.0 Hours (Technical) for Certified Public Works Managers. CPWM Number: DLGS-NJWA-334

Registration is required and available at www.njwater.org.

Please plan to arrive at 8:00 am.

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