

# **SIEWERT** **EQUIPMENT**

A Division Of  
**CUMMINS-WAGNER**

100% Employee Owned

## TRAINING CATALOG 2025





# YOUR EDUCATIONAL RESOURCE



Leveraging extensive engineering and service expertise, Siewert Equipment provides accredited training and seminars tailored for engineers and operators.

Our programs offer professional licensing credits through The Practicing Institute of Engineering (PIE), the NYS Department of Environmental Conservation (DEC), and the NYS Department of Health (DOH), ensuring you stay at the forefront of industry advancements.

## EXPERIENCED TRAINERS

- Our instructors have over 350 years of combined industry experience

## HANDS-ON TRAINING

- Many of our seminars include live demos with glass-faced pumps and hands-on training

## WE COME TO YOU

- We offer 1-2 hour lunch & learns at your location or through webinar format
- We provide coordination and instructors
- We handle the paperwork and approval process for accreditation
- We also host a 4-6.5 credit hour seminar every year across Upstate New York





# A Buyer's Guide To Electric Vehicle Technology

## **Course Description:**

Are you considering purchasing an electric vehicle? Drawing from personal experience, this presentation offers a comprehensive "Buyer's Guide" to help you make an informed decision. We'll explore the key advantages of electric vehicles, potential drawbacks, and critical factors to consider. You'll also learn essential questions to ask before making your purchase. Whether you're new to EVs or looking to deepen your understanding, this session is designed to guide you through the decision-making process with confidence.

## **Who Should Attend:**

This session is ideal for engineers who are considering the purchase of an electric vehicle.

## **Credits:**

1 PDH

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# A Review of Chemical Feed Pump Technology and Chemical Feed Systems

## **Course Description:**

This training provides a comprehensive overview of chemical feed pump technologies and their applications. Attendees will gain a thorough understanding of diaphragm pump technology, advanced smart diaphragm pump technology, and the design and implementation of chemical feed systems. The objective is to equip participants with the knowledge needed to select, operate, and apply chemical feed solutions effectively in various contexts.

## **Who Should Attend:**

This training is ideal for engineers, technicians, and operators involved in the selection, operation, and maintenance of chemical feed systems.

## **Credits:**

1 PDH; 1 DEC

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# Above Ground Self-Priming Pump Stations

## **Course Description:**

This training provides users and engineers with the essential knowledge to effectively select and operate above-ground self-priming pumps in collection systems. Participants will gain insights into key design features that enhance pump performance and system reliability. The session covers critical aspects of pump and system package design, equipping attendees with the tools to improve the operation, efficiency, and dependability of these units in collection systems.

## **Who Should Attend:**

This training is designed for engineers, technicians, and operators involved in the selection, operation, and maintenance of above-ground self-priming pumps in collection systems.

## **Credits:**

1 PDH; 1 DEC



**\*\*DOH credits are provided on an as-needed basis, just let us know if you're interested in specific credits for a training**



# Advanced Grit Management - Design Concepts and Technology

## **Course Description:**

This session provides an in-depth exploration of grit removal, combining academic insights with practical applications. Participants will examine endemic grit analysis, debunk common misconceptions through lab findings, and review the shortcomings of conventional grit removal equipment. The training will also highlight advanced grit management design solutions.

## **Who Should Attend:**

This training is ideal for engineers, operators, and wastewater treatment professionals seeking a deeper understanding of grit removal processes.

## **Credits:**

1 PDH; 1 DEC

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# Advances In Telemetry

## **Course Description:**

This course delves into the latest advancements in telemetry and SCADA systems, focusing on their critical role in the operation, maintenance, and management of water and wastewater systems. Participants will learn how these technologies collect and monitor real-time data, offering a comprehensive overview of equipment performance across a system.

## **Who Should Attend:**

This course is ideal for engineers, operators, and managers involved in the operation, maintenance, and management of water and wastewater systems.

## **Credits:**

1 DEC

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# Aerobic Digestion - Old Challenge, New Innovative Solution

## **Course Description:**

This course provides a comprehensive overview of the aerobic digestion process, focusing on identifying when the treatment process is limited by oxygen or mixing. Attendees will gain insights into the best-fit equipment technologies for each scenario, helping to optimize system performance. The course will also highlight strategies to maximize energy and operational efficiency in aerobic digestion systems, enabling participants to make informed decisions that improve treatment outcomes and reduce operational costs. This session is ideal for engineers and operators seeking to enhance their understanding and management of aerobic digestion processes.

## **Who Should Attend:**

This course is ideal for engineers, operators, and wastewater treatment professionals involved in the management and optimization of aerobic digestion systems.

## **Credits:**

1 PDH; 1 DEC



**\*\*DOH credits are provided on an as-needed basis, just let us know if you're interested in specific credits for a training**





# Benefits of Progressive Cavity Pumps

## **Course Description:**

This course provides a comprehensive overview of the aerobic digestion process, focusing on identifying when the treatment process is limited by oxygen or mixing. Attendees will gain insights into the best-fit equipment technologies for each scenario, helping to optimize system performance. The course will also highlight strategies to maximize energy and operational efficiency in aerobic digestion systems, enabling participants to make informed decisions that improve treatment outcomes and reduce operational costs. This session is ideal for engineers and operators seeking to enhance their understanding and management of aerobic digestion processes.

## **Who Should Attend:**

This course is ideal for engineers, operators, and wastewater treatment professionals involved in the management and optimization of aerobic digestion systems.

## **Credits:**

1 PDH; 1 DEC

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# Case Studies On I&I

## **Course Description:**

This course examines the challenges of inflow and infiltration (I&I) in wastewater treatment plants (WWTPs) and collection systems across New York State, providing participants with a comprehensive understanding of I&I, its prevalence, and its impact on system performance. The session highlights various solutions to address I&I, with a special focus on the innovative use of Low-Pressure Sewer (LPS) systems. Through real-world case studies, attendees will learn how LPS has successfully eliminated I&I in multiple applications, equipping them with the knowledge to evaluate solutions and implement strategies to enhance collection system efficiency and reliability.

## **Who Should Attend:**

This course is designed for engineers, operators, and decision-makers involved in the operation, maintenance, and management of wastewater treatment plants (WWTPs) and collection systems.

## **Credits:**

1 PDH; 1 DEC

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# Centrifugal Pump and System Curves

## **Course Description:**

This course introduces centrifugal pumps, covering key concepts, designs, and differentiators. Participants will engage in hands-on demonstrations of pump and system curves, explore Net Positive Suction Head (NPSH), and participate in discussions to reinforce learning. Attendees will leave with the knowledge to select, operate, and maintain pumps for improved performance and reliability.

## **Who Should Attend:**

This course is designed for engineers, operators, and decision-makers involved in the operation, maintenance, and management of wastewater treatment plants (WWTPs) and collection systems.

## **Credits:**

1 PDH; 1 DEC



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# Clarifier Seminar

**Course Description:**

This one-hour training provides an overview of clarifier pump systems used in wastewater treatment plants for various applications. Participants will learn best practices for selecting, applying, optimizing, and maintaining different types of clarifier pump systems.

**Who Should Attend:**

Designed for engineers, operators, and maintenance personnel, this session equips attendees with the knowledge to enhance system performance and reliability in wastewater treatment processes.

**Credits:**

1 DEC

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# DBP Prevention & Treatment Optimization

**Course Description:**

This presentation provides an overview of DBPs, including formation, compliance regulations, prevention, treatment optimization strategies, and available technologies. Case studies will also be reviewed. It offers valuable information for water professionals to apply in their daily operations, ensuring the best potable water quality.

**Who Should Attend:**

Designed for water and wastewater operators, managers, and design engineers, this session offers practical insights to enhance day-to-day operations and ensure the delivery of high-quality potable water.

**Credits:**

1 PDH; 1 DEC

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# Decentralized Wastewater Treatment Designs With A Focus On Biologically Active Filter Technology

**Course Description:**

This course explores the advantages of biologically active filter technology and key design considerations for decentralized wastewater treatment systems focused on nutrient removal. Participants will learn how biofilm microbes break down organics and nitrogen compounds, as well as methods for efficient nutrient and pollutant removal. The session also addresses the growing need for resilient wastewater treatment solutions in underserved areas experiencing rapid development, equipping attendees with the knowledge to implement effective and sustainable treatment strategies.

**Who Should Attend:**

This course is ideal for engineers, designers, operators, and managers involved in decentralized wastewater systems, nutrient removal, and treatment methods in rapidly developing or underserved areas.

**Credits:**

1 PDH; 1 DEC



**\*\*DOH credits are provided on an as-needed basis, just let us know if you're interested in specific credits for a training**



# Engineer's Day At The Factory

## **Course Description:**

This course offers engineers a guided tour of the Environment One Corporation's local manufacturing facility, where sewer grinder pump systems are produced. Participants will walk through the manufacturing process, stopping at key points to learn about production techniques, continuous improvement practices, and quality assurance protocols. The tour provides an in-depth look at the technology behind sewer grinder pumps and how they are tested to ensure optimal performance and reliability.

## **Who Should Attend:**

This course is ideal for engineers, technicians, and professionals involved in the design, operation, and maintenance of sewer grinder pump systems.

## **Credits:**

1 PDH; 1 DEC

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# Gorman-Rupp Factory Training

## **Course Description:**

This course offers participants a behind-the-scenes tour of the Gorman-Rupp manufacturing facility, where industry-leading pumps and pump systems are designed and produced. Engineers and professionals will walk through the production process, gaining insights into key stages of manufacturing, testing, and quality assurance. The tour will showcase the latest pump technologies, innovation in design, and continuous improvement practices that ensure reliability and performance.

## **Who Should Attend:**

This training is ideal for engineers, technicians, and professionals involved in pump system design, operation, and maintenance.

## **Credits:**

6 PDH; 6 DEC

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# Introduction To Air Valves

## **Course Description:**

This course provides an overview of the issues caused by air in water and wastewater lines, including the impact on system performance. Participants will learn about various types of equipment designed to remove air from pipelines and how to identify signs and symptoms of air in water and wastewater force mains. The session will cover effective air removal techniques, as well as the benefits of maintaining air-free force mains, improving system efficiency and reliability.

## **Who Should Attend:**

This course is ideal for engineers, operators, and maintenance personnel working with water and wastewater systems, particularly force mains.

## **Credits:**

1 PDH; 1 DEC



# Membrane Bioreactor Technology and Applications

## **Course Description:**

This course offers valuable insights into the selection, implementation, and long-term operation of membrane bioreactor (MBR) systems for wastewater treatment. Participants will learn the engineering principles involved in designing MBR systems and selecting the appropriate membranes. The session will cover best practices for optimizing system performance, ensuring sustainability, and addressing operational challenges in the treatment process.

## **Who Should Attend:**

This course is ideal for engineers, designers, and wastewater treatment professionals focused on the selection, design, and operation of membrane bioreactor (MBR) systems. It is valuable for those looking to enhance their knowledge of MBR technology and optimize system performance.

## **Credits:**

1 PDH; 1 DEC

# Odor Identification and Treatment Technologies for Wastewater Collection Systems and Treatment Plants

## **Course Description:**

This course provides valuable insights into the measurement and chemical makeup of odors in wastewater treatment systems. Participants will learn about the criteria for designing effective odor control equipment and explore the various odor control treatment technologies available. The session will cover best practices for selecting and implementing odor control solutions to improve system performance and maintain a clean, efficient operation.

## **Who Should Attend:**

This course is ideal for engineers, operators, and professionals in wastewater treatment and odor control, particularly those responsible for designing, selecting, and implementing odor control solutions.

## **Credits:**

1 PDH; 1 DEC

# Onsite Hypochlorite & Disinfection Generation

## **Course Description:**

This course provides an understanding of how chlorine can be generated onsite for water disinfection, highlighting the benefits and principles of this process. Participants will learn about the equipment used in onsite chlorine generation, as well as best practices for operation and maintenance. The session will also cover disinfection principles, advantages of onsite chlorine systems, and the potential opportunities for their installation and operation in water treatment systems.



**\*\*DOH credits are provided on an as-needed basis, just let us know if you're interested in specific credits for a training**





**Who Should Attend:**

This course is ideal for engineers, operators, and water treatment professionals interested in onsite chlorine generation systems, their operation, maintenance, and benefits for disinfection processes.

**Credits:**

1 PDH; 1 DEC

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## Parallel Series Pumping

**Course Description:**

This course covers hydraulic design considerations for pumping systems, focusing on Series, Parallel, and Parallel-Series pumping configurations in collection systems. Participants will gain an understanding of how these different pumping arrangements affect system hydraulics, flow, and efficiency. The session will provide insights into the design and operation of pumping systems, helping attendees optimize system performance and ensure reliable, efficient operations.

**Who Should Attend:**

This course is ideal for engineers, designers, and operators involved in pumping systems, particularly those seeking to optimize performance and efficiency through hydraulic design and pumping configurations.

**Credits:**

1 PDH; 1 DEC

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## Performance Capacity Improvements with Unattended Operation

**Course Description:**

This training session focuses on improving performance capacity with an emphasis on unattended operation. Participants will learn about effective monitoring techniques, maintenance tasks ranging from daily to yearly, and essential hardware requirements. The course will also cover housekeeping and cleaning practices, as well as the proper disposal of dried biosolids. Attendees will gain valuable insights into optimizing operations for maximum efficiency while ensuring long-term sustainability.

**Who Should Attend:**

This course is ideal for engineers, operators, and maintenance personnel focused on unattended wastewater treatment operations. It is particularly valuable for those responsible for optimizing performance, maintenance, and biosolid disposal.

**Credits:**

1 PDH



# Positive Displacement

## **Course Description:**

This course will provide an in-depth understanding of positive displacement pumps, explaining how they operate and how they differ from dynamic (centrifugal) pumps. The session will cover various types of positive displacement pumps and their specific applications in different industries. Participants will gain valuable insights into the mechanics of these pumps and how to select the appropriate type for specific operational needs, improving their ability to optimize pump performance in their systems.

## **Who Should Attend:**

This course is ideal for engineers, operators, and maintenance personnel working with pumping systems, particularly positive displacement pumps. Participants will gain a deeper understanding of how these pumps differ from centrifugal pumps and learn how to optimize performance and select the best pump types for various applications.

## **Credits:**

1 PDH; 1 DEC

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# Pressure Sewer For New Sewer and Sewer Repair

## **Course Description:**

This course provides a one-hour overview of sewer feasibility, system improvements, and pressure sewer applications, supported by relevant case studies. Participants will gain insights into the latest approaches and technologies used in sewer system design and improvement, with real-world examples to reinforce key concepts and help inform decision-making for future projects.

## **Who Should Attend:**

The session is designed for engineers, operators, and owners to explore various alternatives for new sewer installations and sewer repairs.

## **Credits:**

1 PDH; 1 DEC

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# Pressure Sewer Overview and Applications

## **Course Description:**

This course offers an overview of pressure sewer systems (LPS), explaining how they operate and the benefits they provide to communities and users. Participants will learn about the key components of LPS, the advantages of using pressure sewer systems for wastewater collection, and how they contribute to efficient, reliable service. The session will cover the operational principles of LPS, along with insights into their design and implementation, offering valuable information for those involved in wastewater infrastructure planning and management.

## **Who Should Attend:**

This course is ideal for engineers, designers, operators, and wastewater professionals involved in sewer system planning and operation. It is especially valuable for those managing or considering pressure sewer systems (LPS).

## **Credits:**

1 PDH; 1 DEC



# Submersible Pump Stations

## **Course Description:**

This course provides essential information for users to effectively select and operate submersible pumps in collection systems. Participants will learn about key design features that improve pump performance and help optimize selection for various collection system applications. The session will also cover important design considerations for wet well geometry, offering strategies to reduce pump clogging and enhance operational efficiency. Attendees will gain valuable insights to improve the reliability and longevity of submersible pump systems in their operations.

## **Who Should Attend:**

This training is ideal for engineers, operators, and maintenance personnel working with submersible pumps in collection systems. It focuses on optimizing pump performance, improving reliability, and addressing issues like clogging, with insights into key design features that enhance efficiency and longevity.

## **Credits:**

1 PDH; 1 DEC

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# Total Blower Control

## **Course Description:**

This course explores opportunities to automate wastewater treatment plants (WWTPs) by focusing on lessons learned from projects in New Jersey, California, Massachusetts, and Kentucky. Participants will learn how automation can reduce both capital and operating expenditures while also identifying common challenges in implementing automated systems. The session will provide valuable insights into optimizing blower control systems, improving efficiency, and avoiding potential pitfalls in automation projects, ultimately leading to cost-effective and streamlined WWTP operations.

## **Who Should Attend:**

This course is ideal for engineers, operators, and wastewater treatment professionals focused on optimizing WWTPs. It is especially valuable for those implementing automation solutions to reduce costs and improve blower control systems.

## **Credits:**

1 PDH

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# Unattended Operation Using Remote Monitoring and SCADA Optimizes Dryer Capacity and Performance

## **Course Description:**

This course will cover how to optimize dryer operations using SCADA and remote monitoring systems to maximize uptime and improve biosolids equipment efficiency. Participants will learn how SCADA technology can streamline operations, reduce downtime, and enhance the performance of biosolids handling systems in wastewater treatment plants.

**\*\*DOH credits are provided on an as-needed basis, just let us know if you're interested in specific credits for a training**





**Who Should Attend:**

This course will focus on optimizing dryer operations using SCADA and remote monitoring to maximize uptime and improve biosolids equipment efficiency, reducing downtime and enhancing system performance in wastewater treatment plants.

**Credits:**

1 PDH; 1 DEC

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## Wastewater UV Disinfection

**Course Description:**

This training provides a comprehensive understanding of UV disinfection processes in wastewater treatment. Participants will explore the principles of UV disinfection, compare various UV lamp technologies, and learn about the advantages of UV disinfection over traditional chlorine methods. The session will equip attendees with valuable insights into optimizing disinfection processes and selecting the most effective UV technologies for wastewater treatment applications.

**Who Should Attend:**

This course is ideal for engineers, operators, and wastewater treatment professionals involved in disinfection processes. It is particularly valuable for those interested in learning about UV disinfection technology, comparing different UV lamp types, and understanding the benefits of UV over traditional chlorine disinfection methods.

**Credits:**

1 PDH; 1 DEC