SIEWERT EQUIPMENT

A Division Of

CUMMINS-WAGNER

100% Employee Owned

TRAINING CATALOG 2026

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 200 years of combined industry experience

HANDS-ON TRAINING

- We have over 30 accredited trainings
- Many of our seminars include live demos with glass-faced pumps and other live demonstrations

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 typically host a couple 4-6.5 credit hour seminar every year across Upstate New York

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1 - 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 - 1 Hour

2 - 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 Hour
1 DEC - 1 Hour

3 - A-B Ease of Valve Automation - Introduction to Electric Actuators

Course Description:

This training provides a practical, application-focused view of valve automation, from manual and geared operation to fully actuated systems. Attendees will learn how to select and size actuators, understand common actuator and gearbox types, and explore modern digital features. It also covers control, feedback, and networking considerations to help participants confidently specify and manage automated valve systems in real-world process applications.

Who Should Attend:

This course is designed for engineers, operators, maintenance, and controls professionals involved in specifying, operating, or maintaining automated valve systems in municipal or industrial process applications.

Credits:

1 PDH - 1 Hour
1 DEC - 1 Hour

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4 - 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 Hour
1 DEC - 1 Hour

5 - 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 process.

Credits:

1 PDH - 1 Hour
1 DEC - 1 Hour

6 - 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 - 1 Hour

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7 - 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 Hour

1 DEC - 1 Hour

8 - Benefits of Progressive Cavity Pumps

Course Description:

This course provides an overview of Progressive Cavity (PC) pumps, explaining how they operate and the key benefits they offer across a variety of applications. Participants will learn how PC pumps handle abrasives, solids, and varying viscosities while delivering consistent, low-shear, non-pulsating flow. The training also covers performance factors such as slip, efficiency, pressure staging, and proper pump selection.

Who Should Attend:

This course is ideal for operators, engineers, maintenance personnel, and sales professionals looking to learn or refresh their understanding of Progressive Cavity pump technology.

Credits:

1 DEC - 1 Hour

9 - Best Practices For Aeration System Design

Course Description:

This presentation provides an overview of diffusers used in biological aeration treatment, including membrane types, expected lifespans, and common fouling issues. Attendees will learn how aeration systems are selected based on design criteria and operating economics, as well as best practices for membrane replacement in both disc and tube diffusers.

Who Should Attend:

This session is ideal for operators, engineers, maintenance staff, and utility professionals involved in the design, operation, or maintenance of biological aeration systems.

Credits:

1 PDH - 1 Hour

1 DEC - 1 Hour

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10 - 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 Hour
1 DEC - 1 Hour

11 - 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 ideal for operators, maintenance personnel, engineers, and sales professionals seeking a foundational understanding of centrifugal pumps and their selection, operation, and maintenance.

Credits:

1 PDH - 1 Hour
1 DEC - 1 Hour

12 - 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 PDH - 1 Hour
1 DEC - 1 Hour

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13 - 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 Hour
1 DEC - 1 Hour

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

Course Description:

This course highlights the benefits of biologically active filter technology and key design considerations for decentralized wastewater treatment systems focused on nutrient removal. Participants will learn how biofilm microbes treat organics and nitrogen while addressing the need for resilient, sustainable solutions in rapidly growing and underserved areas.

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 Hour
1 DEC - 1 Hour

15 - Engineer's Day At The Factory

Course Description:

This course offers engineers a guided tour of Environment One Corporation's local manufacturing facility, showcasing how sewer grinder pump systems are produced. Participants will explore key stages of the manufacturing process, including production methods, quality assurance, and testing practices that ensure reliable, high-performance systems.

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 Hour
1 DEC - 1 Hour

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16 - Introduction To Air Valves

Course Description:

This course covers the impacts of air in water and wastewater lines and how it affects system performance. Participants will learn to identify air-related issues, understand air removal equipment, and apply techniques that improve force main 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 Hour
1 DEC - 1 Hour

17 - Membrane Bioreactor Technology and Applications

Course Description:

This course provides an overview of membrane bioreactor (MBR) system selection, design, and operation for wastewater treatment. Participants will learn key engineering principles, membrane selection criteria, and best practices for optimizing performance and addressing operational challenges.

Who Should Attend:

This course is ideal for engineers, designers, and wastewater professionals seeking to strengthen their understanding of MBR system selection, design, and operation.

Credits:

1 PDH - 1 Hour
1 DEC - 1 Hour

18 - 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 Hour
1 DEC - 1 Hour

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19 - 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.

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 Hour

1 DEC - 1 Hour

20 - 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 Hour

1 DEC - 1 Hour

21 - Performance Capacity Improvements With Unattended Operation

Course Description:

This course covers key monitoring and maintenance practices, from daily checks to annual tasks, along with essential hardware requirements. Participants will also learn housekeeping, cleaning, and proper disposal of dried biosolids. The training equips attendees to optimize operations for efficiency and long-term sustainability.

Who Should Attend:

Ideal for engineers, operators, and maintenance staff managing unattended wastewater treatment, especially those focused on performance, maintenance, and biosolid disposal.

Credits:

1 PDH - 1 Hour

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22 - 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.

Credits:

1 PDH - 1 Hour

1 DEC - 1 Hour

23 - Precision Chemical Feed In Industrial Systems

Course Description:

This training provides a comprehensive overview of dosing pump operation, sizing, maintenance, troubleshooting, and applications in water and wastewater systems. Participants will gain practical skills to ensure accurate chemical dosing, maintain reliable system performance, and make informed equipment and process decisions. The course strengthens plant operations, maintenance practices, and long-term asset management for water and wastewater treatment and distribution systems.

Who Should Attend:

Engineers, operators, and maintenance personnel responsible for chemical dosing, process optimization, and system reliability in water and wastewater treatment and distribution.

Credits:

1 PDH - 1 Hour

24 - Pressure Sewer For New Sewer and Sewer Repair

Course Description:

This one-hour course provides an overview of sewer feasibility, system improvements, and pressure sewer applications. Through relevant case studies, participants will explore the latest design approaches and technologies, gaining practical insights to support informed decision-making for future projects.

Who Should Attend:

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

Credits:

1 PDH - 1 Hour

1 DEC - 1 Hour

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25 - 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 Hour
1 DEC - 1 Hour

26 - Progressive Cavity Pump Maintenance

Course Description:

This training provides a comprehensive overview of progressive cavity (PC) pump operation, maintenance, and repair for water and wastewater systems. Participants will learn safe operating practices, inspect wear components, and perform essential maintenance and repair procedures. The course equips operators and engineers with practical skills to ensure reliable pump performance and support overall plant efficiency and system management.

Who Should Attend:

Operators, engineers, and maintenance staff seeking practical skills in PC pump operation, inspection, and maintenance to ensure reliable performance and plant efficiency.

Credits:

1 PDH - 1 Hour
1 DEC - 1 Hour

27 - Sewage Handling, Self-Priming Factory Pump and System Tour

Course Description:

This course offers a behind-the-scenes tour of the Gorman-Rupp facility, where participants will explore the design, manufacturing, and testing of pumps and systems. Engineers and professionals will gain insights into key production stages, quality assurance, and innovative technologies that ensure reliability and peak 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 Hours
6 DEC - 6 Hours

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28 - Submersible Pump Stations

Course Description:

This course provides essential guidance for selecting and operating submersible pumps in collection systems. Participants will learn key design features, wet well considerations, and strategies to reduce clogging, improving pump performance, reliability, and longevity.

Who Should Attend:

This training is ideal for engineers, operators, and maintenance personnel working with submersible pumps in collection systems.

Credits:

1 PDH - 1 Hour
1 DEC - 1 Hour

29 - 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.

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 Hour
1 DEC - 1 Hour

30 - 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.

Credits:

1 PDH - 1 Hour
1 DEC - 1 Hour

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