

2018 CATALOG OF TRAINING



siewertequipment.com 585-482-9640

YOUR EDUCATIONAL RESOURCE



Drawing on a wealth of engineering and service expertise, Siewert Equipment offers accredited seminars and training for engineers & operators.

With professional licensing credits provided by the Practicing Institute of Engineers (PIE), the NYS Dept. of Environmental Control (DEC), and the NYS Dept. of Health (DOH), we can help you stay on the cutting edge of the industry.

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
- We provide coordination and instructors
- We handle the paperwork and approval process for accreditation
- We also host several 4-6.5 credit hour seminars every year across Upstate New York







•	Enhanced Water/Wastewater Treatment by Dynamic Mixing
Credits:	PDH 1 hour; DEC .5 hour
Description:	This course will provide a general overview of tank mixing options for both water and wastewater application and its benefits.
•	A-B-Ease of Valve Automation
Credits:	PDH 1 hour; DEC 1 hour
Description:	Introduction to the different types and applications for electrical actu- ators for water and wastewater treatment plants.
•	Screen Selection, Operation & Maintenance
Credits:	PDH 1 hour
Description:	This course covers what screenings are and why remove them, the removal quantities and quality, the different types of screens & applications, wash press types and applications and the design criteria.
•	Selection & Application of Vertical Turbine Pumps
Credits:	PDH 1 hour
Description:	This presentation will go through the hydraulic methodology and construction options available when configuring a vertical turbine pump to suit a given application.
•	Metering Pump Technology
Credits:	PDH 1 hour; DEC 1 hour
Description:	This course is designed to introduce engineers to metering pump technology, which is used in frequently in disinfection.
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1	• Wastewater Pump Station Design
Credits: Description:	PDH 1 hour
	This course is an overview of the various types of pumps and pump stations, pump selection, causes of cavitation & how to prevent it, wet well design, how to do force main sizing & what parallel pumping is.
	Thickened Aerobic Digestion Process **
Credits:	PDH 1 hour
Description:	Overview of Thickened Aerobic Digestion Process technologies: G-TAD, M-TAD & Mem-TAD as well as results from existing operating plants.
	Mag Drive and Power Monitor Pump Demo
Credits:	PDH 1 hour; DEC 1 hour
Description:	This course is designed to illustrate how a live demo centrifugal pump runs on its curve and how a power monitor can keep a pump running in its optimal performance range.
•	Air Control in Liquid Transmission Systems
Credits: Description:	PDH 1 hour; DEC 1hour
	This course will provide an overview for the various types of issues when there is air in a wastewater or water line. It will describe the different types of equipment available to remove air from a pipeline.
	Mechanical Seal Basic Training
Credits:	PDH 1 hour
Description:	The subject matter covers Mechanical Sealing devices and proper use of them in a pump system to increase equipment reliability.
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	Low Pressure Sewer Systems: Providing a Sustainable Solution for Sewer Renewal **
Credits:	PDH 1 hour; DEC 1 hour
Description:	The fundamentals of low pressure sewer systems & the viability of the systems as a sustainable solution for failing conventional sewer systems. Includes an overview of low pressure sewer systems, system equipment, operation & maintenance overview, & system design principles.
	• The Future of Low Pressure Sewers: Overview and Case Studies of Decentralized Flow Equalization **
Credits:	PDH 1.5 hours
Description:	Smart Control Systems represent a step change in how collection systems can be conceived, designed and operated. These systems provide ultimate flexibility to deliver predictable flow to downstream infrastructure by shifting or smoothing diurnal peaks.
	E/One Engineers' Day at the Factory **
Credits:	PDH 1 hour; DEC 1hour
Description:	You will tour a local manufacturing facility. Environment One Corpora- tion manufacturers sewer grinder pump systems. The engineers will walk through the process stopping at various points along the way to understand the manufacturing processes & continuous improvement techniques as well as the testing and quality assurance areas.
	Biogas Safety and Handling Equipment **
Credits:	PDH 1 hour
Description:	This course will go over design principles & standards in the proper selection and specification of biogas safety equipment, and common equipment used in biogas handling.



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٩	Choosing the Right Blower Technology for your WWTP
Credits:	PDH 1 hour
Description:	This course will provide an overview of each type and style of blower technology, what type of WWTP should use a specific technology and what the advantages and limitations of each are.
	Efficiency Comparisons Between Aeration Blowers **
Credits:	PDH 1 hour
Description:	This course covers the following: evolution of Blower Technologies, matching the technology to the application, right sizing of blowers and accurate evaluation of overall costs.
	Screen Selection, Hydraulics & Screenings Handling **
Credits:	PDH 1 hour
Description:	This presentation will review types of screens, screening equipment design, hydraulic considerations and screening handling.
	Nutrient Removal and Recovery Solutions
Credits:	PDH 1 hour
Description:	A comprehensive review of conventional and biological (BNR) and enhanced (ENR) nutrient removal solutions for liquid and side streams treatment trains at a water resource recovery facility.
	Industrial Mixer Selection & Design
Credits:	PDH 1 hour
Description:	
2	The basics of defining the variables required for optimum mixing & the proper selection of a mixer based on process & mechanical guidelines.
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ſ	New Approach to Progressive Cavity Pumping & Design
Credits:	PDH 1 hour; DEC 1 hour
Description:	This presentation will provide information to engineers and operators for the design and maintenance consideration when specifying and repairing progressive cavity pumps. It will also review a new and inno- vative approach to maintaining flow output over the pumps lifespan.
•	Biogas Safety and Handling Equipment **
Credits:	PDH 1 hour
Description:	This course will go over design principles & standards in the proper selection and specification of biogas safety equipment, and common equipment used in biogas handling.
•	Gorman-Rupp Factory Training **
Credits:	PDH 6 hours; DEC 9.5 hours
Description:	This training will help those attending to better understand the con- cepts and interaction of the different types of pump curves, what NPSH and cavitation are and the different type of pumps are available. It will also educate the operators on how to take proper gauge read- ings and interpret them. This will empower them to properly trouble- shoot their systems and keep their plant running more efficiently.
•	Submersible Pump Hands-On Maintenance
Credits:	DEC 3.5 hours
Description:	This seminar will provide 45 min. of classroom training on the basics of centrifugal pump fundamentals, followed by 2.5 hours of hands-on, in-shop submersible pump control panel troubleshooting demonstration and pump tear-down and inspection training.



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•	UV Advanced Oxidation **
Credits:	PDH 1 hour
Description:	Advanced Oxidation is the process of creating hydroxyl radicals which have a large oxidation potential & drive destructive reactions of organic chemicals in water. This presentation goes over the advanced oxidation process including effects of water quality as well as the steps to design, test and scale up a system to be installed at a water treatment plant.
•	Packaged Systems in the Water & Wastewater Markets
Credits:	PDH 2 hours
Description:	This course will discuss the evolution of packaged systems in the water & wastewater markets from factory built to custom engineered systems & how they can ease future maintenance of equipment, prevent exposure to confined spaces, reduce costs and improve quality.
•	Microturbine Combined Heat & Power Systems **
Credits:	PDH 1 hour
Description:	The course covers the concept and benefits of combined cooling, heat and power (CCHP) systems and microturbine technology and its use in these systems. Integration of microturbine-powered CHP/C- CHP systems within a variety of facilities and with renewable biogas as a fuel option is discussed and several case studies are presented.



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SEMINARS

We host several seminars every year across Upstate New York in Albany, Syracuse, Rochester, and Buffalo. The specific seminars offered vary from year to year; information on registration and dates will be on our website under 'Training & Events' and on our social media pages. You can also ask to be added to our email notification list. Below is a list of previous seminars.

1	Exploring the Pump Universe - Level 1
Credits:	PDH 6.5 hours ; DEC 6.5 hours
Description:	Students will learn the basics of centrifugal & positive displacement pumps & the differentiation among them. Hands-on demos will drive the technical points. Sudents will leave with the understanding of how proper selection, operation & maintenance lead to longer pump life.
	Centrifugal Pump Seminar
Credits:	PDH 6.5 hours ; DEC 6.5 hours
Description:	This seminar will teach the attendees about the fundamentals of fluid mechanics and hydraulics as it relates to the pump industry. We further discuss pump types, running pumps efficiently and the best practices used to ensure acceptable reliability.
	Positive Displacement Pump Seminar
Credits:	PDH 6.5 hours ; DEC 6.5 hours
Description:	Technical overview of the different types of positive displacement pumps. Features, benefits and processed application limitation of each technology will be presented along with a hands-on portion of trou- bleshooting and teardown.



ſ	Mixer Seminar
Credits:	PDH 4 hours
Description:	The seminar will cover mixer design and application in industrial pro- cesses, different types of mixer designs and their effects on the appli- cation process, and the importance and process of tank cleaning.
·	Control Valves for the Water & Wastewater Markets
Credits:	PDH 4 hours ; DEC 4 hours
Description:	This seminar will explain the various types of valves and gates, how they can be used to control flows through dams, flood control pump stations, levees (etc.) and how to specify what valves will be needed for new applications/installations and how to maintain/troubleshoot existing valves within their systems.
•	Screen Seminar
Credits:	PDH 4 hours
Description:	The seminar will cover mixer design and application in industrial pro- cesses, different types of mixer designs and their effects on the appli- cation process, and the importance and process of tank cleaning.
·	Water & Wastewater Technology Spotlight
Credits:	PDH 4 hours, DEC 4 hours
Description:	This seminar provides an overview of options in various types of pump technology. These can be used for chemical injection, disinfection, combination valves, etc. It will also provide information to attendees for design, maintenance and repair of the various types that will be discussed.

