

# Pump Maintenance and Troubleshooting

Thursday, October 27<sup>th</sup> 2022

Company / System: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Cell: \_\_\_\_\_

Email: \_\_\_\_\_

**NPDES #** \_\_\_\_\_ **(If Applicable)**

Please check all licenses and/or categories that apply:

Water Operator \_\_\_\_\_ Wastewater Operator \_\_\_\_\_

Other System Personnel \_\_\_\_\_ Please List: \_\_\_\_\_



Delaware Rural Water Association

210 Vickers Drive

Milford, DE 19963

Phone: 302-424-3792 / Fax: 302-424-3790

Email: delawareruralwater@yahoo.com

Website: www.drwa.org

## Instructor Spotlight

Roger brings many years of experience as he started as a Operator/Supervisor of Wastewater Treatment Facilities in Pennsylvania as well as a Water and Wastewater Lab Technician before joining Envirep, Inc. in 2005. During the years with Envirep, Roger has served as a Service Manager, Manufacturer's representative for water and wastewater treatment equipment manufacturers, providing maintenance, startup, training and troubleshooting of various water and wastewater equipment.

We welcome Roger to DRWA and look forward to having him join us for this presentation!!!



**PLEASE NOTE: CLASS LIMIT IS 25  
EARLY REGISTRATION  
IS RECOMMENDED**

**DELAWARE RURAL WATER ASSOCIATION  
CORPORATE SPONSORS**



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During this session, the participant will be able to understand centrifugal pump basics, centrifugal pump operation, pump components, suction lift principals, net positive suction head and total dynamic head. Also, the participant will learn how to use pump performance curves and system head curves to avoid and resolve mechanical problems, estimate pump capacity using wet well draw-down test, disassemble and assemble a centrifugal pump, replace components, lubricate pump, adjust clearances, use pressure gauges to troubleshoot pumps, understand the causes of cavitations and remedies and have a better understanding of safety concerns when working in a pump station environment.



Time: 8:00 am - 4:00 pm  
ECH's: 7.0 Hrs. Water & Wastewater - Direct  
Location: DRWA Training Facility  
210 Vickers Drive  
Milford, DE. 19963  
Cost: FREE - Funded By USDA RD WW  
Instructor: Roger Stauffer, Envirep, Inc.

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**Please Complete & Return**