

#TBA
**Pumping Systems Optimizing:
 Energy Efficiency and
 Bottom-Line Savings**

*** APPLIED FOR UP TO 10 WATER AND
 WASTEWATER CONTACT HOURS**

Pumping systems account for a significant portion of a facility's energy use in many industries. In the majority of pumping systems, the energy added to the working fluid by the pump is much greater than required by the process. The excess energy added to the system generates heat, noise, and vibration that increase the system's maintenance costs in addition to the excess energy cost. The goal of the Course is highlight how total cost of ownership can be reduced through assessment and optimization. The course provides attendees practical knowledge on pumping system fundamentals and energy consumption, assessment methodology and prescreening, and how to approach system optimization to reduce total cost of ownership.

***This course is being applied for up to 10 Water and Wastewater Contact hours.**

***You must attend both days to get contact hours.**

Day 1 - 8:00-4:00 (Classroom Only)

Topics to be Covered:

- Benefits of Pump Assessment
- Pumping System Fundamentals
- Varying Flow Rate
- Integrated Process Measurement and controls
- Optimizing Pumping Systems
- Analysis Tools

Day 2 - 8:00-12:00 (On-site Pump Room- wear appropriate clothing and boots)

May 7-8, 2020

**Hampton Inn & Suites
 58 Winner Lane
 West Middlesex, PA 16159
 Mercer County**

Class Time:

Day 1: 8:00 am - 4:00 pm

Day 2: 8:00 am - 12:00 pm

Registration: 7:30 am

*Lunch and materials provided
 with your registration*

Instructor:

Hydraulics Institute

Questions?
 Call 800-653-7792 ext. 107 or 108
 Or email: Training@PRWA.com
WE HOPE TO SEE YOU THERE!

THE PRWA PROMISE

If you're not 100% satisfied with the training class for any reason, we will give you a refund!

WWW.PRWA.COM/PROMISE

Attendance cost per person:
 \$165 for PRWA Members
 \$165 for Non-Members

PRWA Member? Yes No

May 7-8, 2020
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Location:
 Hampton Inn & Suites
 58 Winner Lane
 West Middlesex, PA 16159
 Mercer County

Name: _____ PA-DEP Client ID (if applicable): _____

System/Company: _____ Phone: _____

Address: Home System _____ Fax: _____

City _____ State: _____ Zip: _____ Email: _____

PAYMENT:

Check (payable to PRWA) Invoice Me: Home System
 Credit Card: AmEx Discover Visa MasterCard

Card Number: _____

Exp Date (mm/yy): _____ CVC (3 or 4 Digit # on card): _____

Card Billing Zipcode: _____

Name On Card (please print): _____

Signature: _____

Amount Due:
 \$ _____

To register by FAX or MAIL:
 FAX: (814) 353-9341

MAIL: 138 W. Bishop St., Bellefonte PA 16823
EMAIL: TRAINING@PRWA.COM

EMAILING REGISTRATIONS: EMAIL IS INHERENTLY INSECURE. CREDIT CARD INFORMATION SHOULD NOT BE EMAILED OR SENT IN AN ATTACHMENT.

Questions?

Call (800) 653-7792 ext. 107 or 108

Signature shown on card

MEET THE INSTRUCTOR

Hydraulics Institute

Since 1917, the Hydraulic Institute (HI) – has served pump manufacturers, pump system designers and consultants, and pump users by providing pump system standards and a forum for the exchange of industry knowledge and best practices. HI's Mission: Advancing the pump manufacturing industry by becoming the world's resource for pumping solutions by 1) Addressing Pump Systems, 2) Developing Standards, 3) Expanding Knowledge and Resources, 4) Educating the Marketplace, and 5) Advocating for the Industry. Pump Systems Matter (PSM) is a non-profit 501(c)3 educational initiative and subsidiary of the HI. PSM's Vision is to be the leading training authority on pumps and pumping systems, while being true to PSM's Mission of providing product-neutral training on energy efficiency, reliability, economics and effective application of pump systems.

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**Hampton Inn & Suites
Mercer County**

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Also, find us on social media.

Search: Pa Rural Water

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twitter **Google Drive** **flickr**

pa rural water
Association

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