

Three-Day Flexible Course Curriculum

Attend a public HI course or, with a minimum of 10 participants, PSM will bring courses to your facility. Courses may be chosen a la carte, or combined to best suit your organization's needs. In addition to courses, in most cases we can perform an assessment of a pump's operation at your facility with the class participants.



Pump Systems Matter (PSM) is a non-profit educational organization established by the Hydraulic Institute, and leading utilities and energy efficiency organizations, to educate industry on the benefits of pump systems optimization and energy efficiency to improve the bottom-line savings of end-user companies.

Hydraulic Institute's (HI's) Mission:

Advancing the pump manufacturing industry by becoming the world's resource for pumping solutions by:

- Addressing Pump Systems
- Developing Standards
- Expanding Knowledge and Resources
- Educating the Marketplace
- Advocating for the Industry



www.pumps.org

Pump Systems Matter
Phone: 973-267-9700

IN-PERSON COURSE OFFERINGS

Distinguish Your Team as Pump Systems Experts

The leading training authority on pumps and pumping systems

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Pump Systems Matter (PSM) provides comprehensive in-person trainings, from fundamentals to professional Pump Systems Assessment Certification (PSAP) preparation for governmental agencies, private companies and the general public.

Our courses are taught by HI subject matter experts with invaluable experience in their industry. We provide Professional Development Hours (PDHs) for attendees where applicable.



The non-profit educational organization of The Hydraulic Institute



IN-PERSON COURSE OFFERINGS

Course Outline

Day by Day

DAY 1

- PSAP Task and Knowledge Requirement Review
- Why Pump System Optimization is Important
- System Hydraulics, Pump Curves, Energy Consumption and Control
- Pump Fundamentals
- Driver Fundamentals

DAY 2

- DOE Energy Conservation Standards – HI Energy Rating Program
- New Pump Selection, Specification, and Acceptance
- New Pump System Optimization
- Numerical – Hydraulic Modeling to Support Optimization
- Exiting Pump System Optimization
- Life Cycle Cost
- Pump System Assessment

DAY 3 (Choose from option A or B)

Option A

- PSAP Certification Preparation Review
- PSAP Certification Exam

Option B

- Assessing the System
- Life Cycle Cost / Total Cost of Ownership
- System Walk Through – Level 1 Analysis



Pump System Fundamentals

This one day course provides fundamental training, on pump and system curves, BEP, as well as in-depth explanations of different pump types. (7 PDHs)



Pump System Assessment and Optimization

Day two provides a deeper dive into pump selection based on a system's operational requirements, most effective ways to achieve BEP and why it matters, and how to assess the performance of your pumping system. (7 PDHs)



Pump Systems Assessment Professional (PSAP) Prep Course

This half-day course is designed to prepare the student to earn certification as a Pump Systems Assessment Professional. It reviews the fundamentals, optimization and assessment, as well as working through examples from our study guide and sample questions. (3 PDHs)

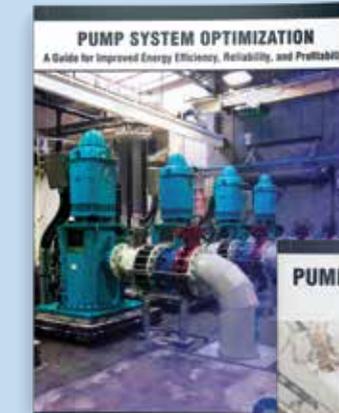


On-Site Facility Walk Through and Assessment

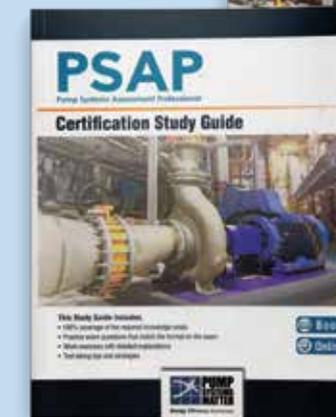
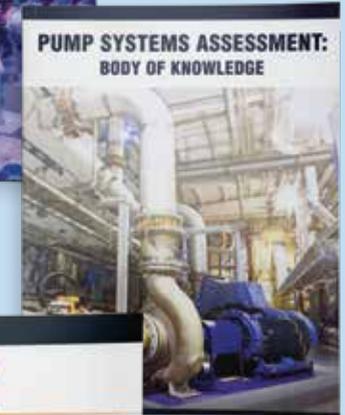
This can be structured as a half or full day activity, where our instructor will walk course participants through a hands on assessment of a pumping system. Participants will connect classroom teachings with your facility to develop strategies for system improvements and real savings. (4-7 PDHs)

SUPPORTING MATERIALS

Addresses how pumps and pumping systems can be applied to minimize energy consumption while maximizing reliability and performance.



Outlines the knowledge, skills and tasks required to conduct a successful pump system assessment.



Addresses the 34 key knowledge areas covered on the PSAP exam by working through sample questions similar in format, topic, and difficulty.