

# Join Us for Hands-On Instruction

## PRECISION MAINTENANCE **SKILLS 3**

Pump Hydraulics, Mechanical Seals, Troubleshooting & Operations/Installation

\*No prerequisite required for this class

**APRIL 15-17, 2024**  
**OMAHA, NE**

**COURSE DESCRIPTION:** *Pump Hydraulics & Mechanical Seals- Troubleshooting and Operations / Installation:*

In this 3- Day Course, you'll learn how to operate & troubleshoot pumps! Even more important, you will understand how they should run trouble free for 100,000 hours (instead of the 10,000 to 30,000). You will use training aids, such as a cut-away pump, real pump parts, seals, and real casings & impellers.

**RECOMMENDED AUDIENCE:** Maintenance and Construction Craftsmen, Apprentices, Front-line Supervisors, Project & Reliability Engineers, Maintenance Managers, & Superintendents, Operations Personnel and significant others implementing plant reliability improvement.

**TOPICS:**

The course is designed for operation and maintenance people where they are given many different operating and troubleshooting scenarios, both correct and incorrect, including these subjects:

- Opening and closing various valves to create real life in field and plant conditions
- Troubleshooting & corrections to operate pumps on their pump curve
- De-"mystifying" Pump Curves so the average mechanic/supervisor can troubleshoot
- Proper starting and stopping procedures with proper flows
- Troubleshoot and correct common field problems that most people "guess wrong"
- Packing, sealing, and gland water issues corrected
- Vibration issues understood and solved
- Water hammer issues
- Other common pump problems and solutions
- Vital Rebuild/Repair Techniques and "watch for's"
- Upon completion of this course, participants will know how to operate & troubleshoot pumps.



**COST:** \$ 1,995.00 per seat

**REGISTRATION / PAYMENT:** Contact Beth DeSimone by email at [bdesimone@hendrixpm.com](mailto:bdesimone@hendrixpm.com) or by phone at (978) 609-2401 Or visit <https://www.hendrixprecisionmaintenance.com/publicclasses>  
Pay by Credit Card or Purchase order

**DATES/TIMES:** Monday, APRIL 15 – Wednesday, APRIL 17 | 7:30AM – 4:30 PM (CDT)

**LOCATION:** TBD

