

# 3-DAYS of HANDS-ON TRAINING



## PRECISION MAINTENANCE SKILLS 3

PUMP HYDRAULICS, MECHANICAL SEALS, TROUBLESHOOTING & OPERATIONS/INSTALLATION

LAKE CHARLES, LA - DECEMBER 9-11

**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.

**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.
- Certificate issued upon course completion

**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.

**\*No prerequisite required;** Hendrix trainings have been strategically designed allowing participants to take in any order

**LOCATION** Spring Hill Suites Lake Charles  
1551 W Prien Lake Rd  
Lake Charles, LA 70601

**DATES** DEC 9-11 (MON - WEDS)  
**TIMES** 7:30AM - 4:30 PM (CDT)

**COST** \$2,295.00/ PER SEAT

\*Breakfast & Lunch provided daily

**REGISTER / QUESTIONS CONTACT:**

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