

CENTRIFUGAL PUMPS

fundamentals & troubleshooting

Centrifugal Pumps Fundamentals & Troubleshooting

2-DAY
TRAINING

Training Description:

This program teaches the fundamentals of how and why pumps perform useful work. Attendees will learn how pumps can and do pump a wide variety of fluids in hundreds of different applications. You will learn how a centrifugal pump performs useful work and about the influence piping and valves have on the pump. This program provides the foundation on how to correctly select and size a pump for a given job. It also reveals why so many pumps aren't working properly. In this program you will also learn how to make pumps last longer in many different systems by doing things right the first time the pump is installed. It delivers explanations of why many pump parts fail and what we can do about making them last longer. You will learn why pumps wear out much too fast because of a failure to understand how the pump and the system work together. You will also learn the basic knowledge and tips on performing pump repairs.

Training Benefits:

- Understand the difference between closed & open pump systems.
- Reduce energy costs.
- Proper installation & care of pumps.
- Common problems & troubleshooting methods.

Prerequisite: None
Standard Class Size: Up to 20
Program Length: 12 hours
CEU s: 1.2

Training Topics:

- Industry Standards
- Total Discharge Head
- Pump Efficiency
- Pump Performance Curves
- Types Of Pumps
- Types Of Impellers
- Affinity Laws
- Trimming Pump Impellers
- Net Positive Suction Head
- Constant Speed System Costs
- Variable Speed Pump Operation
- Cost Savings For Variable Speed Operation
- Pump Application Problems
- How An Open Or Closed System Affects the Pump
- How To Properly Install Your Pumps
- Mechanical Seal Troubleshooting
- What To Do When Pumps Cavitate
- What Happens To The Pump When We Throttle a Valve
- How To Deal With Air Entrapment Problems
- What Is Proper Piping For The Pump
- Proper Submergence For The Pump s Intake
- Foundation And Grouting Tips
- The Importance Of Shaft Alignment
- Why Pump Bearings Fail
- Why Pump Parts Wear Out Too Quickly

CLASS DISCUSSION AND REVIEW

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