



Course Objectives

- 1. Identify typical auxiliary equipment associated with pumps.
- 2. Describe a pump curve and its use in the manufacturing industry.
- 3. Define pump curve operating point.
- 4. Describe the effect of a larger pump or larger motor on a pump curve.
- 5. Identify other data displayed on some pumps curves.
- 6. Describe common performance issues with pumps and their causes and indicators.



Key Terms (Define the following)

strainer	
diffuser	
accumulator	
foot valve	
Net Positive Suction Head Required (NPSHR)	
Net Positive Suction Head Available (NPSHA)	
air infiltration (vapor lock) -	



1.	List four methods for sealing a pump. 1)
	2)
	4)
2.	What is the proper action to take if a mechanical seal is leaking?
3.	What is the purpose of a diffuser?
4.	Accumulators reduce output pressure that create vibration.
5.	What is the general purpose of foot and check valves?
6.	How are foot valves different from check valves?
7.	List the indicators that a pump is cavitating.
8.	How does cavitation affect pump equipment and pump performance?
9.	What are the indicators of air infiltration or vapor lock in a pump?
10.	What must be done when a pump is in vapor lock?