Pump Maintenance

This five-day course is designed to describe pump design, operation, and theory. Various types of pumps are discussed. Hands-on exercises are performed by all participants to reinforce the concepts taught in the classroom. In addition, a discussion of pump maintenance on rotary, reciprocating, and centrifugal pumps will give the participants a complete understanding of typical pump problems and solutions.

I. Pump Design
   · Standards
   · Applications
   · Pump Classifications

II. Pump Operation and Theory
   · Centrifugal Pumps
   · Design Aspects
   · Pump Laws
   · Positive Displacement Pumps
   · Pump Performance Comparisons
   · Special Purpose Pumps
   · Pump Characteristic Curves
   · Performance Testing Centrifugal Pumps

III. Rotary Pump Maintenance
   · Pump Performance
   · Pump Tests
   · Rotary Pump Problems
   · Rotary Pump Maintenance

IV. Reciprocating Pump Maintenance
   · Steam Pumps
   · Power Pumps
   · Metering Pumps
   · Axial and Radial-Piston Pumps
   · Hydraulic Pump Maintenance

V. Centrifugal Pump Maintenance and Troubleshooting
   · Factors Affecting Performance
   · Troubleshooting
   · Inspecting Components for Wear