



Pump Troubleshooting Webinar Description

Pumps are an integral part of treatment systems. Operators will learn what how to troubleshoot basic pump problems, and how to improve pump efficiency.

Operators will learn what pumps should be used in specific applications. For example, if a diaphragm pump is used for a low pressure and high flow application, it will use up to six times more power than a centrifugal pump. Although centrifugal pumps are the most efficient for low pressure and high flows, they are very inefficient and prone to breakdown if used to pump viscous fluids or pump at high pressures.

Positive displacement pumps are used for chemical feed and to pump sludges. Operators will learn where and when to put attenuators into the pumping system to help minimize downtime and to extend pump life. They will also learn which pumps work best with different feed chemicals and how to properly calibrate chemical feed pumps.

Centrifugal pumps are the most widely used water pump. Operators will learn how to properly align pumps and motors and how to determine if the seals and bearings need replacing or lubricated. We will also look at pump and system curves to help diagnose pump problems and how to prevent cavitation. We will look at how variable frequency drives can help reduce the energy consumption in a system and extend the life of our pumps. Operators will learn how to troubleshoot impeller wear problems, seal & bearing failures, and low flow delivery problems. Vibration analysis and thermal imaging will also be covered.