



Pump Troubleshooting Webinar Description

Pumps are critical to every water and wastewater treatment process, and when they fail or operate inefficiently, the entire system is affected. Low flow, poor pressure, excessive vibration, and repeated mechanical failures are often symptoms of deeper issues related to system design, operation, or maintenance.

This course provides a practical, field-focused approach to pump troubleshooting, helping participants identify problems, determine root causes, and implement effective solutions. The training covers both centrifugal and positive displacement pumps, with emphasis on real-world issues such as cavitation, impeller wear, seal and bearing failures, misalignment, and system curve mismatches.

Participants will learn how to interpret pump and system curves, evaluate operating conditions, and diagnose performance problems using measurable data. The course also addresses the role of Variable Frequency Drives (VFDs) in pump operation, including how they can improve efficiency when applied correctly—and create problems when they are not. Special attention is given to chemical feed systems and sludge pumping, including proper pump selection, calibration, and the use of system components such as pulsation dampeners to extend equipment life and improve reliability.

Drawing from decades of hands-on troubleshooting experience, this course emphasizes practical techniques that can be immediately applied in the field to reduce downtime, improve performance, and lower operating costs.