Walters environmental consulting, inc.

Motor Troubleshooting Webinar Description

Electric motors are the workhorses of water and wastewater treatment systems, driving pumps, blowers, and critical process equipment. When motors fail—or operate inefficiently—the result is increased energy costs, unplanned downtime, and potential process upsets.

This course provides a practical approach to motor troubleshooting, helping participants identify problems quickly and determine their root causes. The training covers the most common failure modes, including bearing failures, insulation breakdown, phase imbalance, overloading, and mechanical issues such as misalignment and vibration.

Participants will learn how to evaluate motor performance using key measurements such as voltage, current, and insulation resistance, and how to interpret those results to diagnose issues. Predictive maintenance techniques—including vibration analysis and thermal imaging—are emphasized as tools to detect problems before failure occurs.

The course also includes in-depth coverage of Variable Frequency Drives (VFDs), including proper application, common faults, and troubleshooting strategies. Special attention is given to real-world issues such as harmonics, overheating, and improper installation.

Drawing from decades of hands-on troubleshooting experience, this course focuses on practical methods that can be immediately applied in the field to improve reliability, extend equipment life, and reduce operating costs.