



Lab Analysis Webinar Description

Accurate laboratory data is the foundation of effective water and wastewater treatment. Every operational decision—process control, chemical dosing, compliance reporting—depends on the reliability of analytical results. When lab data is wrong or inconsistent, even well-run facilities can experience process upsets, permit violations, and unnecessary costs.

This course provides a practical approach to laboratory analysis with a focus on producing accurate, consistent, and defensible data. Participants will learn proper sampling techniques, standardized testing procedures, and the critical elements of a strong QA/QC program. Key parameters—including BOD, COD, solids, nutrients, chlorine residual, bacteria, and metals—are covered in detail, along with common interferences and sources of error.

Beyond performing tests, the course emphasizes troubleshooting. Participants will learn how to identify bad data, diagnose the root causes of inconsistent results, and implement corrective actions. Topics such as calibration, control charts, method validation, and lab documentation are presented in a practical, easy-to-apply format.

Drawing from extensive field and laboratory experience, this course connects lab work directly to plant performance—helping participants understand not just how to run tests, but how to trust and use the data to improve operations, maintain compliance, and reduce risk.