



Coagulation & Flocculation Webinar Syllabus

6-Hour Live Webinar

Coagulation & Flocculation: Chemistry, Application, and Optimization

Instructor: Richard Walters, Principal Consultant

Delivery Format: Live Webinar (6 Hours) with Interactive Q&A

Target Audience:

- Drinking Water and Wastewater Operators
- Plant Supervisors and Superintendents
- Environmental Engineers
- Industrial Treatment Professionals
- Regulatory and Compliance Personnel

Course Overview:

This course provides in-depth instruction on the chemistry and application of coagulation and flocculation processes used in water and wastewater treatment. Participants will learn how to evaluate raw water characteristics, select appropriate chemicals, optimize mixing and dosing, and troubleshoot operational issues.

Topics Covered:

- Colloidal Chemistry and Particle Destabilization
- Coagulant Types and Selection Criteria
- Jar Testing and Process Control Strategies
- Polymer Science and Floc Formation Mechanisms
- Mixing Principles and Basin Design Considerations
- Process Optimization and Troubleshooting Techniques