



Module 6: Water Compliance
OMFS Training Series for Jacobs (formerly CH2M)
2026 Syllabus Course Description
Operations Management Group

Document history and status

Revision	Date	Description	Author	Checked	Reviewed	Approved

Contents

Executive Summary	3
1. Course Syllabus Description	4
2. Module Lesson Plan	5
3. Program Tracking and Accountability	6

Appendix A. Course Descriptions

Appendix B. Course Completion Sign-Off Sheet

Appendix C. Compliance & Reporting Certificate of Completion

Executive Summary

Producing safe drinking water is one of the most important services the company provides to clients and communities because the final product is consumed by the public. For this reason, we must be in compliance with all legal requirements at all times.

Operators are on the front line of protecting public health, so we must be attentive to every detail of work conducted and be mindful of the crucial importance of performing at the highest level. This course will give Operators a deeper understanding of operational issues surrounding water compliance, including some historically problematic areas in which we may need to pay particular attention. Associates are also reminded of the resources available to interpret legal requirements and troubleshoot concerns before they become non-compliant.

Not only will Compliance help decrease our environmental footprint, but it is also particularly important since many environmental laws carry severe civil and criminal penalties.

Also addressed within this training module are:

- Know the legal requirements for the facility monitoring plan and special considerations surrounding the use of chlorine for disinfection (including dosage and contact time).
- Understand that failure to monitor is the most common type of violation in our business. This can sometimes occur if there is no written monitoring plan to provide guidance for follow up actions to non-compliant events.
- Identify documentation that is unique to the water system and how to document all samples collected in the distribution system. Since these samples are taken to demonstrate Compliance with federal and state standards, we are required to provide specific information about how the sample is collected and analyzed.
- Recognize when operating a water system our responsibilities include all requirements of the safe drinking water act of 1974 along with its amendments.
- Understand the company has summarized and condensed these legal requirements into the Water Checklist, to ensure we meet all requirements.
- For guidance where or when to sample a particular contaminant, review the Monitoring Plan which will tell you.
- When continuous monitoring is required, Compliance is determined by the results from an analyzer and recorded on a chart recorder or in SCADA. To determine if Compliance has been maintained, we must examine the records every day to ensure that all points fall within the legal limit.

As a result of attending this training, Operators will have a deeper understanding of the legal requirements for water handling and how important our associates' actions are.

1. Course Syllabus Description

The Module 6 Operator Course was developed with all levels of Operators in mind regardless of their length of service. Because performing sampling activity / collection is essential to Operators and they are required to understand the legal requirements involved, this training is applicable to all positions.

The operator course **Module 6: Water Compliance** consists of a 9 Section course for each Operator to watch, participate in class enactment of real life scenarios, review and complete a Final Exam. Each Module will include:

- Simple Text (designed for ease of reading and comprehension)
- Content Examples
- Content Diagrams
- Module Quiz

Each Section encourages personal accountability, provides examples of the evolving requirements, communication and due diligence required in Compliance & Reporting. The course provides guidance, direction and confidence for the goal of “Perfect Compliance and Perfect Reporting of Non-Compliance” to be achieved. Course retention is critical for Clients’ / Customers’ satisfaction and maintaining perfect compliance with all laws and regulations. Jacobs Companywide Compliance Trainer and Program Administrator will be available to help Operators understand, practice and apply what they have learned.

Each Section will require the Operator to complete an attendance sheet that includes Course Title with Approval ID, Date, Printed Name, and Signature. The Project Manager (or designee) is also required to provide their signature ensuring Operators are utilizing the course material appropriately, for the duration noted and following up with Operators’ performance in the field, confirming the Operators are successfully applying what they have learned.

The course content, duration and brief description of each section is provided within the Appendix.

2. Module Lesson Plan

The Operator course Module 6: *Water Compliance* is a video and class presentation designed to allow participants the opportunity to read course materials and then observe, interact and experience examples of the content. The video presentation accompanied by questions and answers will encourage understanding and learned knowledge through course completion. Module 6 will have a Final Exam at the end of the course that will be scored, recorded and tracked.

The learning environment will be in a quiet area (the training room for example), furnished with overhead projection of a desktop, or laptop computer loaded with the assigned course files. The Project Manager will be responsible for providing the Employee with the video presentation, assigned courses, Sign-In Sheet, along with other materials (calculator, scratch paper for notes and computations) and will collect the Final Exam after course completion.

The Final Exam will serve to confirm the associate's retention of the Module and may be utilized as part of the Employee Performance Program internally known as e3.

3. Program Tracking and Accountability

The Companywide Compliance Trainer, or e3 corporate software framework, will score and file the Final Course Exams. A score of 70% is required to Pass. Results will be made available to the site Supervisor. If the Employee does not achieve the minimum score of 70%, the Employee will repeat the course.

The Companywide Compliance Trainer and Program Administrator will be available to those participants showing a need for specific course assistance. Employees will be given the course material objectives as part of their quarterly performance evaluation.

Appendix A. Course Module Descriptions

The following Modules are offered in the recommended progression:

Section	Description	Duration
Course Learning Objectives	Discuss Course Learning Objectives and Expectations.	15 min.
Section 1 – Course Objectives DVD Presentation	DVD Presentation of Course Objectives describing why safe drinking water is one of the most important services our company provides to our clients and communities.	2.28 min.
Section 2 – Legal Requirements	This section highlights common compliance issues, addresses elements that influence the amount of sampling each water facility is required to perform and covers reasons all water systems are required to monitor for contaminants in their drinking water.	3.05 min.
Operator Group 1 Classroom	Class participation with true to life examples / enactment digging deeper into expanding Operator knowledge base.	15 min.
Section 3 – Water Checklist	This section covers when operating a water system our responsibilities include all requirements of the safe drinking water act, a large piece of legislation passed in 1974 which has been amended several times, and additional requirements are often adopted by the states we operate in. To ensure we meet all requirements our company has summarized and condensed these legal requirements into the Water Checklist.	3.53 min.
Section – 4 Monitoring Plan	This section specifies how each facility is required to have a site specific monitoring plan written precisely for the processes at your facility. If you need to know where or when to sample a particular contaminant, the monitoring plan will tell you. If you have a non-compliant result and need to know the next action to take, the monitoring plan will tell you. If you need to know how to determine or calculate if your system is in compliance, the monitoring plan will tell you. It is an essential compliance tool to prevent and reduce non-compliance. A copy of the plan is required to be maintained at each facility in a central location where it is available immediately for reference and must be available at all times for inspection.	2.50 min.

Section	Description	Duration
Operator Group 2 Classroom	Class participation with true to life examples / enactment digging deeper into expanding Operator knowledge base.	15 min.
Section – 5 Issues Involving Chlorine	Disinfection is a vital part of water treatment because it eliminates bacteria and controls other microorganisms. Various methods and chemicals are used for disinfection, and when chlorine is used careful attn is required – both in terms of safety and dosage. In this section we cover the different application points in the disinfection process: Pre-chlorination, Post-chlorination and Re-chlorination and the primary application point for most water systems and the most effective for controlling microorganisms.	2.24 min.
Section – 6 Contact Time	This Module describes how water systems must demonstrate, by calculating contact time, that they have inactivated the pathogens and viruses that potentially existed in their raw water. This section provides the calculation for contact time as well as, the understanding if your system purchases water from another system, the seller is the one responsible for demonstrating inactivation has been achieved.	1.40 min.
Operator Group 3 Classroom	Class participation with true to life examples / enactment digging deeper into expanding Operator knowledge base.	15 min.
Section 6 – Contact Time Cont. Driving the Point Home	Testing class retention and knowledge base with real life examples prompting Operator responses / enactment. Q&A Compliance is your job, compliance is my job, compliance is individually and collectively each of our jobs.	4.44 min.
Section 7 – Continuous Monitoring	This Module covers how many water systems are required to monitor certain parameters continuously. When continuous monitoring is required, compliance is determined by the results from an analyzer and recorded on a chart recorder or in SCADA. Where continuous monitoring is not required, bench meters are often used to analyze for compliance.	2.48 min.
Section 8 – Recordkeeping	Recordkeeping is an essential part of water treatment. In previous training modules, we have covered the concept of due diligence and that keeping good records is one way we show that we have fulfilled our legal obligations.	Cont. on next page -

Section	Description	Duration
Section 8 – Recordkeeping	Our records must demonstrate that we have performed both of the required monitoring for all parameters and used our monitoring plan as a guide to accomplish this. Because these samples are taken to demonstrate compliance with federal and state standards, we are required to provide specific information about how the sample is collected and analyzed. Record retention timeframes are given with additional specifics regarding water related records, inspections and chemical analysis records, in addition to copies of monthly operating reports.	4.03 min.
Operator Group 4 Classroom	Class participation with true to life examples / enactment digging deeper into expanding Operator knowledge base.	15 min.
Section 8 – Recordkeeping Cont.	Testing Operator retention and knowledge base, prompting Operator enactment responses. DVD guidance regarding: Compliance is your job, compliance is my job, compliance is individually, collectively and equally each of our jobs.	2.42 min.
Section 9 – Little Ways to get in Big Trouble	In a previous training module, we discussed little ways to get in big trouble. Remember, those were small decisions or actions that let to big consequences even when unintentional. Failure to monitor is the most common type of violation in our business. Sometimes this occurs if there is no written monitoring plan to provide guidance for follow up actions to non-compliant events. Without guidance, some procedures may be overlooked. A lack of labeling has the potential to lead to non-compliant or disqualified samples. Label sample points throughout the treatment plant and the well sites, good labeling helps people take consistent samples from the right locations. It is important to ensure success in these circumstances, we must make is clear what sampling is to be done and designate the proper sampling points.	5.16 min.
Operator Group 5 Classroom	Class participation with true to life examples / enactment digging deeper into expanding Operator knowledge base.	15 min.

Module 6: Water Compliance

Section	Description	Duration
Driving the Point Home Classroom	Testing class retention and knowledge base with real life examples prompting Operator responses / enactment. Recap highlighting course points. Q&A	15 min.
Module 6 – Final Exam	Final exam requiring 70% or higher score to pass.	30 min.
Evaluation Report	Provide Operator Course Evaluation.	15 min.
Total	All Hours Listed are Firm Estimates	3.00 Hours

Appendix B. Course Completion Sign Off Sheet

Upon completion of each Section, the Operator will legibly print their name and provide a valid signature and date to receive credit. The Companywide Compliance Trainer (or designee) is responsible for Attendee enrollment. The Attendee must commit to full participation, and application of acquired knowledge towards individual professional growth. The Program Administrator will file the signature sheets with the Companywide Trainer into a secure filing network.

		Course Completion Sign-Off Sheet State: _____ Course # _____ Employee Name _____		
Module 6: Water Compliance	Start Date	Completion Date	Minutes to Complete	Supervisor Signature
Course Learning Objectives			15.00	
Section 1 – Course Objective DVD Presentation			2.28	
Section 2 – Legal Requirements			3.05	
Operator Group 1 – Class participation with real life exemplar digging deeper expanding Operator knowledge base			15.00	
Section 3 – Water Checklist			3.53	
Section 4 – Monitoring Plan			2.50	
Operator Group 2 – Class participation with real life exemplar digging deeper expanding Operator knowledge base			15.00	
Section 5 – Issues Involving Chlorine			2.24	
Section 6 – Contact Time			1.40	
Operator Group 3 – Class participation with real life exemplar digging deeper expanding Operator knowledge base			15.00	
Section 6 Cont. – Contact Time, Driving the Point Home			4.44	
Section 7 – Continuous Monitoring			2.48	
Section 8 – Recordkeeping			4.03	
Operator Group 4 – Class participation with real life exemplar digging deeper expanding Operator knowledge base			15.00	
Section 8 Cont. – Recordkeeping / Compliance is your, my, our job			2.42	
Section 9 – Little Ways to get in Big Trouble			5.16	
Operator Group 5 – Class participation with real life exemplar digging deeper expanding Operator knowledge base			15.00	
Driving the Point Home Testing class retention and knowledge base with real life exemplar prompting Operator responses / enactment. Recap highlighting course points. Q&A			15.00	
Module 6 Final Exam Requires 70% or higher score to pass			30.00	
Evaluation Report – Provide Operator Evaluation			15.00	
Total Hours Awarded for CEU Credit			3.00 TCH	0.30 CEU
I understand that it is incumbent upon me to complete all modules in this Course and that Jacobs verifies and audits the completion of training by employees. My signature indicates that I personally reviewed and completed all portions of this Course and no one has completed any portion of this course on my behalf.				
DD/MM/20YY				
Employee Signature _____		Date _____		License/Certification# _____

Appendix C. Water Certificate of Completion

Upon completion of the Module, the Program Administrator will complete the below Completion Certificate and provide a copy to the Operator for their records. At the site level, the Operator is responsible for submitting their Certificate to the State and paying any applicable state CEU fees. The Program Administrator may assist, as needed. When required, this form will be customized to include necessary State specific information.



Jacobs
CERTIFICATE OF COMPLETION
First Last Name

has successfully completed:

Module 6: *Water Compliance*

State Drinking water Operators
Awarded: 0.30 CEU, 3.00 TCH
Course ID #: n/a
License / Certification #: _____

On _____ **(Date)**
As reviewed and approved by:

Elisabeth Smith, Companywide Compliance Trainer