

**Training Evaluation Request**  
**Oregon Environmental Services Advisory Council**  
**Watura**  
**Disinfection in Drinking Water Distribution Systems**

**Course title:** Disinfection in Drinking Water Distribution Systems

**Drinking Water CEUs:** 1.0 h

**Wastewater CEUs:** 0 h

**Instructor bio:** Maelle LIMOUZIN is a Water Resources and Environmental Engineer who studied at UT Austin. She spent 10 years working in a consulting company for drinking water and wastewater public utilities and 3 years in a company that manages drinking water and wastewater facilities. Currently, she uses her technical expertise and experience to train public and private organizations in managing their drinking water and wastewater systems.

**Course description:** Disinfection ensures water remains safe throughout the distribution system. It eliminates or inactivates harmful microorganisms that can cause serious health risks. This course focuses on booster chlorination using chlorine gas and sodium hypochlorite, detailing their purpose, application, and safety requirements. It also covers key procedures, including flushing, cleaning, and emergency disinfection.

**Learning goals:**

- Describe the purpose of disinfection in drinking water distribution systems
- Explain how chlorination is used to disinfect drinking water
- Identify the procedures for flushing, cleaning, and emergency disinfection of distribution systems

**Tracking attendance method:**

The e-learning platform offers a highly interactive experience designed to engage learners at every stage. It begins with an initial test to assess knowledge and tailor the learning journey. The course includes short, focused videos interspersed with mandatory training quizzes that reinforce key concepts and ensure active participation. Students are required to watch every video entirely and to answer practice questions before advancing to the next course module. Students cannot skip course content. A final quiz at the end of each chapter evaluates overall comprehension and certifies the learner's mastery of the material. Students must obtain a minimum score of 70% for every chapter's final quiz to successfully complete the course and obtain the certificate of attendance. The platform automatically tracks each learner's learning time. The real learning time is indicated alongside the delivered credits in the course completion certificate.

**Course outline:** Disinfection in Drinking Water Distribution Systems

<b>Initial Test</b>		10 min
<b>1. Disinfection in Drinking Water Distribution Systems</b>	1.1. Course Overview	1 min
	1.2. Purpose of Disinfection in Drinking Water Distribution Systems	4 min
	1.3. Chlorination Using Chlorine Gas or Sodium Hypochlorite	5 min
	1.4. Advantages and Disadvantages of Chlorination	4 min
	1.5. Maintaining Chlorine Residuals Throughout the System	4 min
	1.6. Chlorine Gas Safety Recommendations	7 min
	1.7. Hypochlorination Safety Recommendations	4 min
	1.8. Flushing and Cleaning Distribution Systems	5 min
	1.9. Emergency Disinfection Procedures	4 min
	1.10. Course Glossary	2 min
	1.11. Chapter 1 - Fact Sheet	4 min
	<b>Chapter final test</b>	10 min
<b>Total Learning Time</b>		64 min
<b>Requested Contact Hours</b>		1.0 h