

Training Evaluation Request
Oregon Environmental Services Advisory Council
Watura
Wastewater Pumping

Course title: Wastewater Pumping

Drinking Water CEUs: 0 h

Wastewater CEUs: 1.5 h

Instructor bio: With a background in electromechanical engineering, **Christian CALON** began his career as an operator in a water and wastewater utility. He then became a professional trainer in water and wastewater systems, specializing in pumping. Later, he joined the Compagnie des Eaux et de l'Ozone (Water and Ozone Company), starting as a Regional Technical Director before advancing to lead the national research unit. After the company merged with Veolia, he was appointed as the leading expert in pumping systems.

Course description: This course covers the monitoring of wastewater pumps, as well as flow and level measurement techniques and maintenance guidelines for wastewater pumping systems. It also explains the most common pump problems, such as clogging and cavitation, providing practical precautions to prevent or minimize these problems.

Learning goals:

- Monitor different wastewater pumps
- Identify the different maintenance guidelines for wastewater pumping systems
- Carry out maintenance checks on wastewater pumping 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: Wastewater Pumping

Initial Test		10 min
1. Types of Pumps	1.1. Course Overview	1 min
	1.2. Introduction to Pumping	6 min
	1.3. Centrifugal Pumps	6 min
	1.4. Positive Displacement Pumps	6 min
	1.5. Chapter 1 - Fact Sheets	2 min
	Chapter 1 final test	4 min
2. Wastewater Pumping	2.1. Operation of Lift Stations	4 min
	2.2. Measuring the Flow Rate of a Lift Station	6 min
	2.3. Pumps Used in Wastewater Systems	5 min
	2.4. Problems Associated with Pumps Used in Wastewater Systems	5 min
	2.5. Chapter 2 - Fact Sheets	2 min
	Chapter 2 final test	6 min
3. Use of Instrumentation	3.1. Flow Rate and Pressure Measurement with Instrumentation	7 min
	3.2. External Components of an Electrical Panel	3 min
	3.3 Internal Components of an Electrical Panel	6 min
	3.4. Course Glossary	5 min
	3.4. Chapter 3 - Fact Sheets	2 min
	Chapter 3 final test	4 min
Total Learning Time		90 min
Requested Contact Hours		1.5 h