

Training Evaluation Request
Oregon Environmental Services Advisory Council
Watura
Operating Procedures of an Activated Sludge WWTP

Course title: Operating Procedures of an Activated Sludge WWTP

Drinking Water CEUs: 0 h

Wastewater CEUs: 1.5 h

Instructor bio: **Corinne MOUGNON VAREILLAS** has 23 years of experience in operational management for water and wastewater services. Throughout her career, she has developed technical, regulatory, and contract management expertise, while staying closely connected to fieldwork and clients. Since 2019, she has been an independent consultant and trainer, helping public entities and industries improve operation and maintenance processes while promoting capacity building.

Course description: In this training course, you will learn how to operate and manage small and medium WWTPs using the activated sludge process. Each stage of treatment will be covered, from when the wastewater enters the plant to its discharge into the natural environment. By the end of the course, you will have a solid understanding of the key aspects required to effectively run a medium or small-sized WWTP.

Learning goals:

- Define the role of an operator at a WWTP using the activated sludge process
- Identify the different water treatment processes in a WWTP using the activated sludge process
- Identify the different sludge disposal processes in a WWTP

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: Operating Procedures of an Activated Sludge WWTP

Initial Test		8 min
1. How does a WWTP using the Activated Sludge Process work	1.1. Course Overview	1 min
	1.2. Stages in the Treatment Process	5 min
	1.3. Role of an operator	5 min
	1.4. Safety at a WWTP	6 min
	1.5. Chapter 1 - Fact Sheets	2 min
	Chapter final test	3 min
	2. Wastewater Treatment Processes	2.1. Screening: Mechanical Bar Screens
2.2. Grit and Grease Removal		5 min
2.3. Lift Stations		5 min
2.4. Extended Aeration Process and Phosphorus Treatment		9 min
2.5. Clarifiers		4 min
2.6. External Inputs Brought into the WWTP		4 min
2.7. Chapter 2 - Fact Sheets		4 min
Chapter final test		8 min
3. Sludge Treatment		3.1. Sludge Disposal Methods
	3.2. Centrifugal Sludge Dewatering	6 min
	3.3. Sludge Thickening	5 min
	3.4. Course Glossary	5 min
	3.5. Chapter 3 - Fact Sheets	2 min
	Chapter final test	3 min
	Total Learning Time	
Requested Contact Hours		1.5 h