

**Training Evaluation Request**  
**Oregon Environmental Services Advisory Council**  
**Watura**  
**Groundwater Withdrawal**

**Course title:** Groundwater Withdrawal

**Drinking Water CEUs:** 1.0 h

**Wastewater CEUs:** 0 h

**Instructor bio:** **Regis INGOUF** has in-depth technical expertise in the operation and management of groundwater resources, including hydrogeology, drilling works, maintenance of water sources, and water resource protection. His experience has led him to work with various environmental and planning agencies. He has also intervened as an instructor for both private organizations and public organizations.

**Course description:** Freshwater on our planet is primarily stored in underground reserves. It is therefore essential to understand how to extract this vital resource efficiently and sustainably. First, we will explore the various types of aquifers and their unique characteristics. Then, we will look at different methods of groundwater withdrawal, including springs, wells, and boreholes.

**Learning goals:**

- Describe the characteristics of aquifers
- Distinguish between the different types of groundwater withdrawal techniques

**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: Groundwater Withdrawal**

<b>Initial Test</b>		6 min
<b>1. Aquifers and Groundwater</b>	1.1. Course Overview	1 min
	1.2. Basic Concepts of Geology	4 min
	1.3. Basic Concepts of Hydrogeology	4 min
	1.4. Different Types of Hydrogeological Contexts	5 min
	1.5. Special Characteristics of Karst and Alluvial Aquifers	5 min
	1.6. Groundwater Contamination	6 min
	1.7. Chapter 1 - Fact Sheets	4 min
	<b>Chapter final test</b>	6 min
<b>2. Different Types of Groundwater Withdrawal Techniques</b>	2.1. Springs and Wells	5 min
	2.2. Water Well Components and Characteristics	5 min
	2.3. Course Glossary	4 min
	2.4. Chapter 2 - Fact Sheets	2 min
	<b>Chapter final test</b>	3 min
<b>Total Learning Time</b>		60 min
<b>Requested Contact Hours</b>		1.0 h