

Training Evaluation Request
Oregon Environmental Services Advisory Council
Watura
Math Grade I - Part II

Course title: Math Grade I - Part II

Drinking Water CEUs: 2.0 h

Wastewater CEUs: 2.0 h

Instructor bio: **Mike PING** is a licensed Professional Engineer with a Bachelor of Science in Electrical Engineering from Clemson University. He brings over 24 years of experience in the water and wastewater industry and is an active member of the WEA.

Course description: This course builds upon the foundational math skills introduced in Part I and further equips Grade I water and wastewater operators with the essential calculations they need in the field. This course will cover key concepts, including percentages, averages, perimeter, area, and volume. These concepts are applied to real-world problems involving rectangular and circular structures, such as tanks and pipes, frequently encountered in water and wastewater facilities.

Learning goals:

- Describe the role of perimeter, area and volume in water and wastewater facilities
- Check that the units used in a calculation are consistent and appropriate
- Calculate percentages and averages
- Calculate the perimeter, area, and volume of standard shapes (rectangles, circles and cylinders)

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: Math Grade I - Part II

Initial Test		9 min
1. Math Grade I - Part II	1.1. Course Overview	1.5 min
	1.2. Calculating Percentages	6.5 min
	1.3. Calculating Averages	5 min
	1.4. Checking the Units	6 min
	1.5. Perimeter Definition	3 min
	1.6. Calculating the Perimeter of a Rectangle	5 min
	1.7. Calculating the Perimeter of a Circle	5 min
	1.8. Area Definition	4 min
	1.9. Calculating the Area of a Rectangle	4 min
	1.10. Calculating the Area of a Circle	6 min
	1.11. Volume Definition	6 min
	1.12. Calculating the Volume of a Rectangular Shape	5 min
	1.13. Calculating the Volume of a Cylinder	8 min
	1.14. Grade II - Practice Test 1	15 min
	1.15. Grade II - Practice Test 2	15 min
	1.16. Interactive Fact Sheet	4 min
	Chapter final test	12 min
Total Learning Time		120 min
Requested Contact Hours		2 h