



A Non-Profit Educational Corporation

# Basic Wastewater Treatment Course & Contact Hour Workshop Grades 1 - 2



\*In accordance with local, State and Federal directives, class may be held via Zoom.

**Dates:** July 20 - 31, 2026

**Location:** 8801 Folsom Blvd., Suite 220  
Sacramento, CA 95826

**Time:** 8:00 a.m. to 4:00 p.m.

**Class Info:** Class credit is issued based on a combination of:  
- Chapter quizzes, Feedback, Participation, and Attendance.

### TUITION FEE SCHEDULE:

**Small water system,**  
(serving a population of 10,000 or less)  
\$140.00/day or \$1300.00 full course

**Medium/Large water system,**  
(serving a population of 10,001 or more)  
\$275.00/day or \$2600.00 full course

**Tuition must be paid prior to the first day of class. A 10% cancellation fee will be charged.**

## Class Schedule

### July 20, 2026: **Wastewater Standard Parameters** - 7 Contact Hrs./0.7 CEUs

- This class contains basic wastewater information each operator should know. It outlines and identifies treatment processes, plant equipment, math formulas, standard plant operating parameters, lab tests, chemicals, and provides definitions and list abbreviations.

### July 21, 2026: **Activated Sludge** - 7 Contact Hrs./0.7 CEUs

- Operators will review activated sludge process fundamentals, process variations, biological nutrient removal, process control measures and monitoring of DO, pH, and other essentials. It also includes process control troubleshooting tables, application of chemicals and selected process control math problems.

### July 22, 2026: **Wastewater Ponds & Lagoons** - 7 Contact Hrs./0.7 CEUs

- Operators will examine facultative wastewater ponds and lagoons, define terms from the facultative lagoon glossary, identify biological concepts, water quality and operating tests, the operation of aerobic and aerated lagoons. Operators will compute organic loading, BOD, grit removal, discuss design loading, the role of green algae, oxygen, and nutrient, the role of photosynthesis and daylight operation, operating modes, and lagoon mathematics; OLR, acres, detention time, surface area, daily hydraulic loading, and evaporation and percolation rates, operating characteristics, effluent water quality parameters and reuse for discharge systems.

### July 23-24, 2026: **2-Day Wastewater Math, Gr. 1-2** - 14 Contact Hrs./1.4 CEUs

- A scientific calculator is required for this math class.
- Operators will compute: volume, grit channels, pumps, clarifiers, lagoon systems, trickling filters, basic activated sludge processes, problems related to anaerobic digesters, tertiary filtration, sludge conditioning, effluent disposal and disinfection.

### July 27, 2026: **Wastewater Operations & Maintenance** - 7 Contact Hrs./0.7 CEUs

- Students will study a brief history about collections systems, identification of sewerage system components, utility mapping, maintenance, infiltration and inflow (I/I), safety, specification and design, construction inspection, and diagrams.

### July 28, 2026: **Disinfection** - 7 Contact Hrs./0.7 CEUs

- This class addresses all of the basics associated with disinfection, including microbiology, ultra violet technology and dechlorination.

### July 29, 2026: **Wastewater Sanitary Microbiology** - 7 Contact Hrs./0.7 CEUs

- This study includes an outline of study in 4 major topics; identification of basic organisms, organism classification, activated sludge organisms, and process application. Wastewater Operators will examine fundamental microbiology, microbiology of wastewater related to secondary treatment processes, oxidation ponds, lagoons, trickling filters, oxidation ditches, activated sludge digesters, and disinfection with chlorine or UV.

### July 30, 2026: **Wastewater Basic Chemistry** - 7 Contact Hrs./0.7 CEUs

- Operators will discuss the structure and classification of matter, valences, chemical formulas, and equations, solutions, acids, bases and salts. Operators will review the chemistry of treatment processes and practical dosage problems with math reinforcement problems and quizzes. Operators will also review the chemistry involved in the operation of wastewater treatment plants.

### July 31, 2026: **Wastewater Pumps & Motors** - 7 Contact Hrs./0.7 CEUs

- Operators will learn about pump hydraulic terminology, hydraulic fundamentals, centrifugal horsepower, efficiency calculations, cavitation, operating conditions, costs, troubleshooting & self-tests.



# OCT Water Quality Academy Class Registration Form



To register for a class/course, please complete this form and return via:  
 Email: info@octinc.com • Fax: 916-640- 1823 • Mail: 8801 Folsom Blvd, STE 220, Sacramento, CA 95826  
 For questions, please call Customer Service: 916-640-2114 or 866-266-0028

**Student Information:**

Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**I am taking this class for:**

- Review for exam (Test Date \_\_\_\_\_)
  - Need credit/CEUs for license renewal
  - Get started in the industry
  - Educational Purposes
  - Other (Please specify below)
- \_\_\_\_\_

Date of Class(es)	Title of Class(es)	Price
<b>Total</b>		

Requesting tutoring for classes listed above

Scientific calculators (required for math) \$15.00

**Please choose all that apply to you:**

- Caucasian/White
- Black/African American
- American Indian/Alaska Native
- Native Hawaiian/Other Pacific Islander
- Hispanic/Latino
- Asian
- Other
- Prefer not to disclose

**Please select your age and gender:**

- |                   |                   |
|-------------------|-------------------|
| 18 – 25           | Male              |
| 26 – 35           | Female            |
| 36 – 45           | Prefer not to say |
| 46 – 55           |                   |
| 56 - 65           |                   |
| Prefer not to say |                   |

**Payment Information:**

PO#: \_\_\_\_\_  
 CC#: \_\_\_\_\_  
 Expiration Date: \_\_\_/\_\_\_ Security Code: \_\_\_\_\_  
 Email Address for Receipt: \_\_\_\_\_  
 \_\_\_\_\_  
 Small Water System (serves less than 10,000)  
 Med. – Lg. Water System (serves 10,000+)

Fed I.D. # 20-8547253

**Do you need special accommodations to attend this class?    Yes    No**  
**If yes, how can we help?**

\_\_\_\_\_  
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 \_\_\_\_\_

Demographic information is being collected for the sole purpose of determining if intended audiences are being reached through grant programs in conjunction with the USDA Rural Development. Responses have no effect on class enrollment. OCT Water Quality Academy admits students of any race, color, national and ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of its educational policies, admissions policies and other school administered programs.