

Program Registration & Fees:

The operator training program uses an electronic registration process that facilitates online registration and payment options, including credit cards. This format also allows participants to create and manage their own student records to track class participation and print completion certificates.

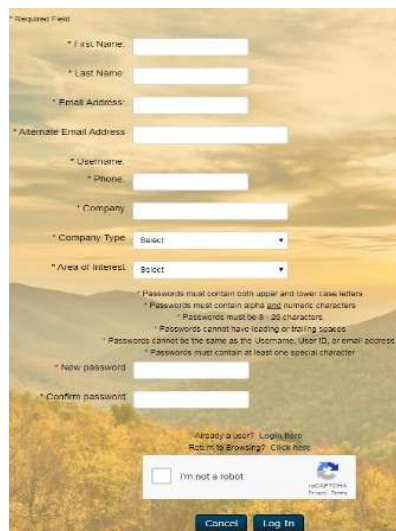
The online method must be used to register for all wastewater operator training workshops. No paper registration forms will be accepted; payment by credit card is the only accepted payment option.

Environmental Learning Management System (ELMS) Registration:

DEQ's Environmental Learning Management System (ELMS) is an online Learning Management System that can be used to enroll in DEQ classroom courses. If you already have a profile in the Virginia Learning Center (VLC) database, you will need to create a new username and password to register with the ELMS.

In order to create your profile in the ELMS, kindly follow the link below:

<https://vadeq.csod.com/login/render.aspx?id=defaultclp>

A screenshot of the ELMS registration form. It includes fields for First Name, Last Name, Email Address, Alternate Email Address, Username, Phone, Company, Company Type (dropdown), and Area of Interest (dropdown). There are also password fields for New password and Confirm password, with a note that passwords must be 8-20 characters, contain both upper and lower case letters, and at least one special character. At the bottom, there is a 'Log In' button and a checkbox for 'I'm not a robot'.

***Once registered in ELMS, a separate link will be sent to register for webinars, and another will be sent for you to order the program manual, if needed.**

Program Content:

Current programs have been selected based on identified needs and availability. These programs and others are offered periodically, at different locations, throughout the year. If you would like to receive notification, by email, sign up here:

<https://www.deq.virginia.gov/water/wastewater/operator-training>

Complete descriptions of the training programs are available upon request.

Program Approval:

Unless otherwise noted, these courses have been approved by the Virginia Board for Waterworks and Wastewater Works Operators and Onsite Sewage System Professionals for training credits. Approved programs can, when applicable, be used as substitution for required operational experience.

Continuing Professional Education (CPE):

Where appropriate, these workshops can be used for continuing professional education (CPE) requirements as defined by the Board. Registrants will typically receive up to 7 contact hours for each full day of completed training and 3.5 contact hours for each ½ day of completed training.

A full day is defined as 8:30 am – 4:30 pm minus 1 hour for lunch. A ½ day is defined as 8:30am – 12:00 noon (or 1:00pm – 4:30pm).

Additional Information:

For additional registration information contact:

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For additional program information contact:

Jason Spicer (804) 659 – 2658
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Wastewater Operator Training Programs



July – September 2025

Operator Training and Assistance Program
Water Permitting Division
Department of Environmental Quality
P.O. Box 1105
Richmond, Virginia 23218

DEQ, Wastewater Operator Training Program List

Summer (July - September) 2025

Course #	Course Name	Dates	Location	Price
DEQ 101	Wastewater Works Operators Licensure Review Web Series: License Prep and Math Review	July 2, 2025 8:30 AM- 12:30 PM	Go to Webinar Format	\$37.50
DEQ 100	Wastewater Works Operators Licensure Review	July 8 – 11, 2025 T-Th 8:30 AM – 4:30 PM Fri 8:30 AM – 12:30 PM	Valley Regional Office, Harrisonburg	\$262.50
DEQ 24	Wastewater Utility Management	July 16, 2025 8:30 AM- 4:30 PM	Go to Webinar Format	\$75.00
DEQ 20	Wastewater Operator Math Review	July 22 – 23, 2025 8:30 AM- 4:30 PM	DEQ Northern Regional Office, Woodbridge	\$150.00
DEQ 102	Wastewater Works Operators Licensure Review Web Series: Characteristics and Preliminary	July 30, 2025 8:30 AM- 12:30 PM	Go to Webinar Format	\$37.50
DEQ 103	Wastewater Works Operators Licensure Review Web Series: Primary, Ponds and Fixed Film	August 13, 2025 8:30 AM- 12:30 PM	Go to Webinar Format	\$37.50
DEQ 100	Wastewater Works Operators Licensure Review	August 26 – 29, 2025 T-Th 8:30 AM – 4:30 PM Fri 8:30 AM – 12:30 PM	Henrico Water Reclamation, Varina	\$262.50
DEQ 18	Introduction to Biological Nutrient Removal	September 10, 2025 8:30 AM- 12:30 PM	Go to Webinar Format	\$37.50
DEQ 100	Wastewater Works Operators Licensure Review	September 16 -19, 2025 T-Th 8:30 AM – 4:30 PM Fri 8:30 AM – 12:30 PM	Blue Ridge Regional Office, Salem	\$262.50
DEQ 16	VPDES Permit Reporting	September 24, 2025 8:30 PM- 12:30 PM	Go to Webinar Format	\$37.50
DEQ 17	Nutrient General Permit Reporting	September 24, 2025 1:30 PM- 4:30 PM	Go to Webinar Format	\$37.50

Please note that all virtual classes will use “GO TO Webinar” to deliver the training. To participate in the training, a computer, phone, and/or tablet, with an internet connection, will be required.

Register for the classes here:

<https://vadeq.csod.com/login/render.aspx?id=defaultclp>

July – September 2025

Course Descriptions:

DEQ 16: VPDES Permit (Webinar)

This program is designed to review recordkeeping and reporting requirements associated with the Virginia Pollutant Discharge Elimination System (VPDES) permit. The program will include discussions of recordkeeping requirements and the various reporting requirements established in VPDES permits. ***This class qualifies for Utility Management CPE contact hours.**

DEQ 17: Nutrient General Permit (Webinar)

This program is designed to identify reporting requirements associated with the General Permit for Total Nitrogen and Total Phosphorus Discharges in the Chesapeake Bay Watershed. The program will focus on the methods and procedures required for completion of the Nutrient General Permit monthly discharge monitoring report (DMR). ***This class qualifies for Utility Management CPE contact hours.**

DEQ 18: Introduction to Biological Nutrient Removal (BNR) (Webinar)

This workshop provides an introduction to the principles involved in biological nutrient removal. The focus of the program will be the suspended growth (activated sludge) BNR processes. The program will discuss the basic concepts associated with biological nutrient removal (nitrification, denitrification and biological phosphorus removal). It will identify performance factors, provide typical operating ranges for many of these factors and review various design and operational configurations currently being used for BNR.

DEQ 20: Wastewater Operator Math

This workshop provides hands on instruction in the skills required to accurately perform wastewater treatment related calculations. The program will review basic math concepts including area and volume, decimals and percents, and completing necessary conversions. The program will also cover more complex process control calculations such as, but not limited to, velocity and flow, loading and performance, sludge pumping and chemical addition. The course includes “real world” examples to assist the participant in understanding the formulas necessary to perform the calculations.

DEQ 24: Wastewater Utility Management (Webinar)

This workshop provides an opportunity for the participant to obtain a broad spectrum of knowledge and skills necessary to manage more effectively his or her treatment system. Basic management characteristics and core functions, people and public management techniques, financial and legal concepts, safety and security concerns and day to day managing of operations, maintenance and lab functions will be discussed. ***This class qualifies for Utility Management CPE contact hours.**

DEQ 100: Wastewater Works Operators Licensure Review

This three and one-half day workshop provides a comprehensive overview of the subject matter covered in all classes (Class 4 – 1) of the Associations of Board of Certifications (ABC) Virginia wastewater licensing examinations. The program will focus on the information outlined in the Need-to-Know criteria provided by the exam vendor. ***This class qualifies for Utility Management CPE contact hours.**

DEQ 101: Wastewater Works Operators Licensure Review (Webinar) License Prep and Basic Math Review

This workshop provides a review of the requirements to sit for the Virginia wastewater treatment licensure class 4-1 levels. It also provides candidates with a comprehensive overview of the ABC exam process including exam content areas and will discuss many math concepts including basic math and formulas, geometry and conversion factors.

DEQ 102: Wastewater Works Operators Licensure Review (Webinar) Characteristics and Preliminary

This workshop provides wastewater treatment licensure candidates with an overview of the characteristics of influent wastewater and a comprehensive review of preliminary treatment processes.

DEQ 103: Wastewater Works Operators Licensure Review (Webinar) Primary, Ponds and Fixed Film Treatment

This workshop provides wastewater treatment licensure candidates with a comprehensive overview of Primary, Pond and Fixed film (Trickling Filters and Rotating Biological Contactors) treatment processes. This class will also review basic math formulas associated with the processes.