

SPECIALIZED TRAINING PROGRAMS AND COURSES

UPDATED MAY 22, 2025

APPROVED BY THE VIRGINIA BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS AND ONSITE SEWAGE SYSTEM PROFESSIONALS

GENERAL INFORMATION

1. The following programs have been specifically approved by the Board for Waterworks and Wastewater Works Operators and Onsite Sewage System Professionals (Board) to conduct training courses that may be substituted for some of the experience required to qualify to sit for the examination for a waterworks or wastewater works operator license.
2. The Board uses the term "TC" for training credits. TCs differ from Continuing Professional Education (CPE) in that TCs are used to substitute for experience requirements for initial licensure and must be approved by the Board in a formal process. "CPE" is education that is used by existing licensees to satisfy the renewal requirement for a particular license and is not approved by the Board. CPE content is required to be limited to those items covered by the Board's examination for the relevant license for which CPE is completed.
3. The titles of the approved courses offered by each sponsor are listed along with the number of TCs awarded for successful completion of each course. One training credit is equal to one month of experience substitution. No licensee may substitute more than 50% of the total experience required for any license applied for per 18VAC160-30-130 C of the Board's regulations.
4. No credit will be given for any course that is not on the current list. Exception: Courses provided by federal agencies; state agencies; or certain institutions, schools, and universities, for which continuing education units are awarded, may qualify for TCs without prior Board approval. Those courses may not appear on this list. To receive credit for those courses, a detailed hour-by-hour course schedule along with evidence of course completion must be provided with the application.
5. All certificates under the approved program may be used again to substitute for experience in a higher class license.
6. No experience substitution is allowed for Class 4, Class 5, or Class 6 licenses per 18VAC160-30-110 A of the Board's regulations.

AMERICAN WATER COLLEGE**For more information please contact:**

Joe Kirschner

P.O. Box 152

Valley Mills, TX 76689

(661) 874-1655

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Advanced Water Treatment	4.2	January 26, 2023	X				
Applied Chemistry	2.9	January 26, 2023	X	X	X		
Applied Hydraulics	2.0	January 26, 2023	X	X	X	X	X
Distribution System Review (4 hrs.)	0.4	January 26, 2023	X				
	0.2			X	X		X
Distribution System Review (8 hrs.)	0.8	January 26, 2023	X				
	4.0			X	X		X
Distribution System Review (12 hrs.)	1.2	January 26, 2023	X				
	.6			X	X		X
Distribution System Review (16 hrs.)	1.6	January 26, 2023	X				
	.8			X	X		X
Electricity for the Water Industry	1.3	January 26, 2023	X	X	X	X	
Introduction to Water Treatment	4.3	January 26, 2023	X				
Wastewater Operator Exam Preparation Class 1	5.8	January 26, 2023		X	X		
Wastewater Operator Exam Preparation Class 2	5.5	January 26, 2023		X	X		
Wastewater Operator Exam Preparation Class 3	4.9	January 26, 2023		X	X		
Wastewater Operator Exam Preparation Class 4	3.5	January 26, 2023		X	X		
Wastewater Treatment Review (4 hrs.)	0.4	January 26, 2023		X	X		X
Wastewater Treatment Review (12 hrs.)	1.2	January 26, 2023		X	X		X
Wastewater Treatment Review (21 hrs.)	2.1	January 26, 2023		X	X		X
Water Quality	4.1	January 26, 2023	X				
	3.5			X			
Water Sources	2.0	January 26, 2023	X				
	1.0			X	X		X
Water Transmission and Distribution I	4.8	January 26, 2023	X				
	2.1			X	X		

	4.8		X				
Water Transmission and Distribution II	1.4	January 26, 2023		X	X		
Water Treatment Math	3.6	January 26, 2023	X	X	X	X	X
	0.4		X				
Water Treatment Review (4 hrs.)	0.2	January 26, 2023		X	X		
	0.8		X				
Water Treatment Review (8 hrs.)	0.4	January 26, 2023		X	X		
	1.2		X				
Water Treatment Review (12 hrs.)	0.6	January 26, 2023		X	X		
	1.6		X				
Water Treatment Review (16 hrs.)	0.8	January 26, 2023		X	X		
	3.9		X				
Waterworks Operator Class 1	1.9	January 26, 2023		X	X		
	3.6		X				
Waterworks Operator Class 2	1.8	January 26, 2023		X	X		
	3.5		X				
Waterworks Operator Class 3	1.7	January 26, 2023		X	X		
	3.3		X				
Waterworks Operator Class 4	1.6	January 26, 2023		X	X		

AMERICAN WATER WORKS ASSOCIATION (AWWA), VIRGINIA SECTION

For more information please contact:

Cynthia Barnes

cynthia.barnes@vaawwa.org

(434) 238-5131

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Cross Connection Devices	1.60	November 14, 2017	X	X	X		

AQUA-AEROBIC SYSTEMS, INC.

For more information please contact:

Monica Alfano

(815) 639-4511

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Innovative Treatment Technologies	0.36	April 26, 2018	X	X	X	X	X

AQUA NEXUS LC

For more information please contact:

James Evan Woods
670 N 6th Street
Wytheville, VA 24382
evan@aquanexus.org
(276) 451467

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Waterworks Operations	2	April 22, 2024	X				

AT YOUR PACE ONLINE

For more information please contact:

Tony Bowers
www.aypotech.com/virginia-water-operator-continuing-education
(877) 724-6150

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
5 Hour Water Utility Management Course	0.60	January 29, 2019	X				
	0.3			X			X

CALIFORNIA STATE UNIVERSITY (SACRAMENTO)

For more information please contact:

Jamie McCartney
Office of Water Programs
6000 J Street
Sacramento, CA 95819

www.owp.csus.edu

wateroffice@owp.csus.edu

(919) 278-6142

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Disinfection, Laboratory Procedures, and Math	4.3	October 28, 2021	X	X	X		X
	2.1					X	
Math Applications in Water Treatment	2.1	April 18, 2019	X	X	X	X	X
Math Applications in Water Distribution	1.9	April 18, 2019	X	X	X	X	X
Manage for Success: Effective Utility Leadership Practices	1.7	June 21, 2006	X	X	X	X	X
Operations & Maint. Of Wastewater Collection Systems, Vol. II	6.4	November 3, 2021		X	X		X
	3.2		X			X	
Operation of Wastewater Treatment Plants, Vol. II	4.0	April 4, 1996		X			
Pretreatment Facility Inspection	7.5	October 28, 2021		X			
Safety, Beginning Treatment, and Lagoon Systems	4.0	October 28, 2021		X			
	2.0	October 28, 2021	X		X		
Secondary Treatment	3.6	October 28, 2021		X	X	X	X
Treatment of Metal Wastestreams	2.6	October 28, 2021		X			
	1.3		X		X		
Water Systems Operation and Maint. Video Training Series	2.0	June 21, 2006	X	X	X		X
	1.0					X	
Operation of Wastewater Treatment Plants, Vol. 2A Treatment Plants and Tertiary Treatments	3.5	January 26, 2023		X			
	2.8		X				
	1.7				X		
Operation of Wastewater Treatment Plants, Vol. 2B Solids Management and Plant Maintenance	4.0	January 26, 2023		X			
	1.7		X				
	2.0				X		
703A-Water Distribution: Safety	2.2	April 20, 2023	X	X			
	1.1				X	X	X
703B-Water Distribution: Distribution Facilities	3.1	April 20, 2023	X	X			
	1.5				X		
703C-Water Distribution: Disinfection	2.1	April 20, 2023	X	X	X		
703D-Water Distribution: Operation & Maintenance	2.5	April 20, 2023	X	X	X		

703E-Water Distribution: Management	2.1	April 20, 2023	X	X	X		
CE38A-Operation of Wastewater Treatment Plants	9.0	April 20, 2023		X			
Vol. I-Wastewater Specialist Program	4.5		X		X		
CE38B-Operation of Wastewater Treatment Plants	12.0	April 20, 2023		X			
Vol. II-Wastewater Specialist Program	6.1		X		X		
CE39-Advanced Waste Treatment	10.5	April 20, 2023		X			
Wastewater Specialist Program	5.2		X		X		
Collection Systems: Methods for Evaluating and	2.3	April 20, 2023	X	X			
Improving Performance	1.1				X		
104C-Math Application in Wastewater	3.8	April 20, 2023	X	X	X	X	X
101C-Math Application in Collection Systems	2.2	April 20, 2023	X	X	X	X	X
Membrane Bioreactors	8.7	April 20, 2023		X			
	4.3		X		X		X
Collection System Operation & Maintenance	6.8	April 20, 2023	X	X	X		
Pretreatment Facility Inspection	5.9	April 20, 2023		X			
Training Videos	2.9		X		X		
Advanced Waste Treatment	10.2	July 27, 2023		X			
	5.1		X		X	X	X
CE28A-Water Treatment Plant Operation I ₂	12.9	July 27, 2023	X				
	6.4			X	X	X	X
CE28B-Water Treatment Plant Operation II ₂	13	July 27, 2023	X				
	6.5			X	X	X	X
CE29-Small Water System Operation & Maint. ₂	11.5	July 27, 2023	X				
	5.7			X	X	X	X
Industrial Waste Treatment, Volume I	13	July 27, 2023		X			
	6.5		X		X		
Industrial Waste Treatment, Volume II	10.9	July 27, 2023		X			
	5.4		X		X		
Operations & Maint. Of	9	July 27, 2023	X	X			
Wastewater Collection Systems, Vol. I	4.5				X	X	X
Small Wastewater System Operation and Maint., I	6.6	July 27, 2023		X			
	3.3		X		X	X	X
Small Wastewater System Operation and Maint., II	6.6	July 27, 2023		X			
	3.3		X		X	X	X

702A Small Water Systems--Wells	2.2	July 27, 2023	X				
	1.1			X	X	X	X
702B Small Water Systems--Treatment Plants	2	July 27, 2023	X				
	1			X	X	X	X
702C Small Water Systems--Disinfection	2.4	July 27, 2023	X				
	1.2			X	X	X	X
702D Small Water Systems--Safety & Introduction to Small System Management	2.7	July 27, 2023	X				
	1.3			X	X	X	X
702E Small Water Systems--Lab Procedures	2.5	July 27, 2023	X	X	X		
Utility Management	1	July 27, 2023	X	X	X	X	X
Water Distribution System Operation and Maintenance	11.2	July 27, 2023	X	X	X	X	X
Water Treatment Plant Operation, Vol. I	12.7	July 27, 2023	X				
	6.3			X	X	X	X
Water Treatment Plant Operation, Vol. II	13.8	July 27, 2023	X				
	6.9			X	X	X	X
Industrial Waste Treatment Vol. A-Introduction, Safety, Waste Monitoring, Preliminary Treatment	5.3	July 27, 2023		X			
	2.5		X				
Industrial Waste Treatment Vol. B-Physical and Physical/Chemical Treatment Processes	4.5	July 27, 2023		X			
	2.2		X				
Industrial Waste Volume C.-Instrumentation and Control and Facility Maintenance	3.9	July 27, 2023		X			
	1.9		X				
Operation of Wastewater Treatment Plants Vol. 3A Treatment Plants, Effluent Discharge	2.8	June 29, 2023		X			
	1.4		X		X		
Operation of Wastewater Treatment Plants Vol.3B Instrumentation and Control	4.1	June 29, 2023	X	X			
	2.0				X	X	
Industrial Waste Treatment Vol 2 A Introduction and Fixed Film Processes	2.3	April 11, 2024		X			
	1.2		X		X		
Industrial Waste Treatment Vol 2 B Activated Sludge Processes and Nutrient Removal	3.4	April 11, 2024		X			
	1.7		X		X		
Industrial Waste Treatment Vol 2 C Anaerobic Treatment and Residual Solids Management	3.2	April 11, 2024		X			
	1.6		X		X		
Membrane Bioreactors	3.1	April 10, 2025		X			

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2 These courses are versions of "Water Treatment Plant Operation, Volumes I & II", and "Small Water System Operation and Maintenance" with an available on-line exam. Any person submitting a certificate for the "Water Treatment Plant Operation Specialist Certificate Program" indicating the completion of all three courses shall be eligible for the TC's earned in each course. The maximum allowable TC's will be based upon the class of licensure being applied for.

CENTRAL CAROLINA TECHNICAL COLLEGE/ENVIRONMENTAL TRAINING CENTER

For more information please contact:

Joshua Castleberry
 SC Environmental Training Center
 506 N Guignard Drive
 Sumter, SC 29150
castleberryjs@cctech.edu
 (803) 778-6656

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Biological Wastewater Treatment Operators	2.0	February 9, 1994		X	X	X	X
Short School (Levels A, B, C, D)	1.0		X				
Physical/Chemical Wastewater Treatment Plant Operators Short School (Levels A, B, C, D)	2.0	February 9, 1994	X	X	X		
Water Distributions System Operation & Maintenance Short School (Levels A, B, C, D)	2.0	February 9, 1994	X	X	X	X	X
Water Treatment Plant Operators Short School (Levels A, B, C, D)	2.0	February 9, 1994	X				
	1.0			X	X	X	X

DAVID H. PAUL, INC.

For more information please contact:

Darrell Cunningham
 1911 Rustic Place

Farmington, NM 87401
dcunningham@dhptraining.com
(505) 326-3431

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Math, Chemistry, Biology INWT 145	1.0	December 21, 2000	X	X	X	X	X
Reverse Osmosis INWT 146	2.0	December 21, 2000	X	X	X	X	X
R O Troubleshooting INWT 147	2.0	December 21, 2000	X	X	X	X	X
High Purity Water from Ion INWT 160	1.0	December 21, 2000	X	X			
Ion Exchange Operation INWT 161	1.0	December 21, 2000	X	X	X	X	X
Maintaining High Purity INWT 162	4.0	December 21, 2000	X				
	2.0			X	X		
Pretreatment Troubleshooting INWT 255	1.5	December 21, 2000	X	X			
	0.7				X		
Scaling and Fouling Troubleshooting INWT 256	1.5	December 21, 2000	X	X	X	X	X
Advanced R O Monitoring/Cleaning INWT 257	2.0	December 21, 2000	X	X	X		
Feedwater & Pretreatment INWT 270	1.0	December 21, 2000	X	X	X	X	X
Ion Exchange Troubleshooting INWT 271	2.0	December 21, 2000	X	X	X		
	1.0					X	X
Post Ion Exchange INWT 272	1.5	December 21, 2000	X	X	X		
	0.7					X	X
Reverse Osmosis Specialist I Certification	3.8	July 27, 2023	X	X	X		
	1.9					X	X
(OLC110) Introduction to Water Treatment	0.9	July 27, 2023	X				
	0.4			X	X	X	X
(OLC111) Water Treatment Plant Fundamentals	1.8	July 27, 2023	X				
	0.5			X	X	X	X
(OLC112) Water Treatment Math	0.6	July 27, 2023	X	X	X	X	X
(OLC113) Water Treatment Chemistry	1	July 27, 2023	X	X	X		
	0.5					X	X
(OLC115) Piping and Instrumentation Diagrams	0.3	July 27, 2023	X	X	X	X	X
(OLC116) Reverse Osmosis Water Treatment	1.3	July 27, 2023	X	X	X		
	0.6					X	X
(OLC117) Reverse Osmosis Operation &	1.3		X	X	X		

Maintenance	0.6	July 27, 2023				X	X
(OLC118) Reverse Osmosis Monitoring & Troubleshooting	1.4	July 27, 2023	X	X	X		
	0.7					X	X
(OLC411) Ion Exchange Water Treatment	0.8	July 27, 2023	X	X	X		
	0.4					X	X
(OLC413) Distillation	0.2	July 27, 2023	X	X	X		
	0.1					X	X
(OLC501) OCM of RO Ssystem-ROSII	2.8	July 27, 2023	X	X	X		
	1.4					X	X

D.R. WANLESS AND ASSOCIATES LLC

For more information please contact:

Dennis R. Wanless
427 Shadowbrook Drive
Burlington, NC 27215
(336) 538-2262

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Aeration Principles, Applications, and Technologies	0.4	October 26, 2017	X	X	X		
	0.2					X	X

ENVIRONMENTAL OPERATING SOLUTIONS, INC.

For more information please contact:

Brendan Luther
53 Portside Drive
Pocasset, MA 02559
bluther@microc.com
(423) 571-3720

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
EOSi Principles of BNR	0.5	July 25, 2019		X	X	X	X
	0.2		X				

HAMPTON ROADS SANITATION DISTRICT APPRENTICESHIP PROGRAM (HRSD)

For more information please contact:

Christina Perez

1434 Air Rail Avenue

Virginia Beach, VA 23455

(757) 460-4226

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Biological Treatment Process I	2.1	September 7, 2010	X	X	X	X	
	1.0						X
Biological Treatment Process II	2.1	September 7, 2010	X	X	X	X	
	1.0						X
Bearings and Lubrication	2.1*	December 10, 1992	X	X	X		
	1.0*					X	X
Incineration	2.1*	December 10, 1992		X	X		
Fundamentals of Electricity and Instrumentation	2.1	December 10, 1992	X	X	X		
	1.0					X	X
Introduction to Wastewater Treatment & Maintenance 1	2.1*	December 10, 1992		X	X		
	1.0		X			X	X
Introduction to Treatment and Maintenance 2	2.1	December 10, 1992		X	X		
	1.0					X	
V-Belt, Coupling and Drive Alignment*	2.1	December 10, 1992	X	X	X		
	1.0					X	
Valves and Piping Systems*	2.1	March 19, 1992	X	X	X		
	1.0					X	
Pipe & Pipefitting*	2.1	March 19, 1992	X	X	X		
	1.0					X	
Preliminary and Primary Treatment*	2.1	December 10, 1992		X	X		
	1.0		X			X	X
Odor Control and Chemical Addition*	2.1	December 10, 1992		X	X		
	1.0		X			X	X
	2.1*		X	X	X		X

Pumping Systems I	1.0*	December 10, 1992				X	
	2.1		X	X	X		X
Pumping Systems II	1.0*	December 10, 1992				X	
Shop Prints & Mechanical Drawing	2.1	March 19, 1992	X	X	X	X	X
	2.1*		X	X	X		
Sanitary Chemistry I	1.0*	December 10, 1992				X	X
	2.1*		X	X	X		
Sanitary Chemistry II	1.0*	May 1, 2016				X	X
	2.1*		X	X	X		
Wastewater Analysis*	1.0*	December 10, 1992				X	X
	2.1		X	X	X		
-Biosolids Processing	1.0	December 10, 1992				X	X
	2.1*			X	X		
Solids Handling & Management	1.0*	December 10, 1992	X			X	X
	2.1			X	X		X
Stream Ecology	1.0	December 10, 1992	X				
	2.1			X	X		X
Stream Ecology (online)	1.0	March 22, 2013	X				
	2.1		X	X	X		
Biological Nutrient Removal I	1.0	December 10, 1992				X	X
	2.1		X	X	X		
Biological Nutrient Removal II	1.0	December 10, 1992				X	X
Disinfection	2.1*	December 10, 1992	X	X	X	X	X
	2.1			X	X		
Wastewater Treatment I	1.0	December 10, 1992	X			X	X
	2.1			X	X		
Wastewater Treatment II	1.0	December 10, 1992	X			X	X
Treatment Plant Math I	2.1	December 10, 1992	X	X	X	X	X
Treatment Plant Math II	2.1	December 10, 1992	X	X	X	X	X

*Operator experience credit may be given for grades of C or better for plant & maintenance operators enrolled in the apprenticeship program.
 apprenticeship program.

HEYWARD INCORPORATED OF VIRGINIA**For more information please contact:**

Steve Childers
10146 West Broad Street
Glen Allen, VA 23060
(804) 965-0086

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Regional Pump School	0.6	December 7, 2017	X	X	X	X	X

ILLINOIS STATE WATER SURVEY**For more information please contact:**

Katie Buckley
2204 Griffith Drive, 432
Champaign, IL 61820
info@wateroperator.org
(217)244-8239

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Groundwater and Well Care for Public Water Systems	0.2	July 25, 2019	X				
	0.1			X	X	X	X

MARYLAND CENTER FOR ENVIRONMENTAL TRAINING**For more information please contact:**

Tara Jones
8730 Mitchell Road
La Plata, MD 20646
(301) 934-7500

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Electrical Troubleshooting	0.7	March 11, 2003	X	X	X	X	X

MICHIGAN STATE UNIVERSITY (MSU)

For more information please contact:

Keith Bezant Niblett

<https://execed.broad.msu.edu/>

edp@broad.msu.edu

(517) 353-8711

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Maintenance Management in Water & Wastewater	3.0	September 23, 1993	X	X	X	X	X
Supervisory Management in Water & Wastewater Field	3.0	September 23, 1993	X	X	X	X	X

MUNICIPAL H2O

For more information please contact:

Steve Glenn

650 S. Shackleford Road, Suite 325

Little Rock AR 72211

(800) 897-9425

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
EPA Risk Management Program: Internal Auditing for Water and Wastewater Facilities	0.5	April 18, 2019	X	X	X	X	X

NORTH CAROLINA STATE LABORATORY OF PUBLIC HEALTH

For more information please contact:

Michele Sartin

4312 District Drive

Raleigh, NC 27607

(919) 807-8879

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Bacteriological Methods for the Analysis of Drinking Water	1	April 16, 2015	X	X	X		
	0.5					X	X

OMNISITE

For more information please contact:

Emmie Ward
203 West Morris Street
Indianapolis, IN 46225
eward@omnisite.com
(317) 885-6330

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Technical Training	1.25	June 15, 2012	X	X	X	X	X

THOMAS W. FORE (TOM FORE WATER & WASTEWATER CONSULTING

For more information please contact:

(434) 944-3445

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Ethics for Water, Wastewater and Onsite Sewage System Professionals	0.3	July 27, 2017	X	X	X	X	X

UF TREEO CENTER

For more information please contact:

Sienna Horton
3900 SW 63rd Boulevard
Gainesville, FL 32608
Springdale, AR 72765
(352) 392-9570
www.treeo.ufl.edu

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Wastewater Treatment Plant Operations Class C&B Training Course--Online	14.7	October 27, 2022		X	X		
	7.3		X			X	X

U.S. POULTRY & EGG ASSOCIATION

For more information please contact:

Paul J. Bredwell III
1530 Cooledge Road
Tucker, GA 30084
www.uspoultry.org
(678) 514-1973

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Poultry Wastewater Operators Training Course	1.5	January 19, 2017		X	X		
	0.7		X			X	X

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ)

For more information please contact:

Jason Spicer
Operator Training & Assistance Water Division
1111 East Main Street
Richmond, VA 23219
(804) 659-2658

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
(DEQ 13) Activated Sludge Process Control, Part 1 (Observations & Testing)	1.4	March 22, 2013		X	X		
	0.7		X			X	X
(DEQ 14) Activated Sludge Process Control, Part 2 (Process Control & Troubleshooting)	1.4	January 15, 2016		X	X		
	0.7		X			X	X
(DEQ 21) Activated Sludge Process Control, Part 3 (Microscopic Examination)	1.4	March 22, 2013		X	X		
	0.7		X			X	X

(DEQ22) Activated Sludge Process Control, Part 4 (BNR/EBPR Process Control and Troubleshooting)	1.4	February 29, 2016		X	X		
	0.7		X			X	X
(DEQ 19) Basic Lab Skills	1.0	March 7, 2007	X	X	X	X	X
(DEQ 18) Introduction to Biological Nutrient Removal (BNR)	0.7	January 15, 2016		X	X		
	0.3		X			X	X
(DEQ 17) Nutrient General Permit Reporting	0.3	December 4, 2008		X	X	X	X
	0.1		X				
(DEQ 15) Package Treatment Plant Operation Workshop	1.3	September 9, 2003		X	X	X	X
	0.6		X				
(DEQ 12) Sampling & Testing for Small Wastewater Treatment Plants	1.0	April 15, 1999	X	X	X	X	X
(DEQ 16) VPDES Permit Recordkeeping and Reporting	0.35	September 14, 2005	X	X	X	X	X
(DEQ 20) Wastewater Math for Operators	2.0	September 14, 2005	X	X	X	X	X
(DEQ 100) Wastewater Works Operator Licensure Review	2.4	October 24, 2019		X	X	X	X
	1.2		X				
(DEQ 24) – Wastewater Utility Management	.7	April 11, 2024		X	X	X	X
	.35		X				

VIRGINIA TECH WATERWORKS/WASTEWATER WORKS ANNUAL OPERATORS SHORT SCHOOL

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Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Water/Waste Operator Short Course Level 1	3.3	July 21, 1993	X	X	X		
Water/Waste Operator Short Course Level 2	3.3	July 21, 1993	X	X	X		
Water/Waste Operator Short Course Level 3	3.3	July 21, 1993	X	X	X		
Water/Waste Operator Short Course Level 4*	3.3	July 21, 1993	X	X	X		
Small Onsite System Course*	3.3	July 21, 1993		X	X	X	X

**Prior approved courses that were incorporated into the VA Tech Short School.*

VIRGINIA WESTERN WORKFORCE DEVELOPMENT SERVICES

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Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Using the ABC Wastewater Treatment Formula Table	1.8	October 25, 2018	X	X	X	X	X
Using the ABC Water Treatment Formula Table	1.8	July 27, 2023	X	X	X	X	X

