

## **SPECIALIZED TRAINING PROGRAMS AND COURSES**

### **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.

**ALEXANDRIA SANITATION AUTHORITY**

**For more information please contact:**

Jerry Barrett  
1500 Eisenhower Avenue  
Alexandria, VA 22314  
(703) 549-3381

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Biological Nutrient Removal (BNR) Overview	0.3	June 20, 2022		X			
BNR and Methanol	0.3	June 20, 2022		X			
Centrifuge Thickening	0.3	June 20, 2022		X			
Filtration System	0.3	June 20, 2022	X	X	X		
Primary Effluent Pumping	0.3	June 20, 2022		X	X		
Process Air	0.3	June 20, 2022		X	X		
Solids Overview	0.3	June 20, 2022		X	X		
SSTS, RAS, and WAS Systems	0.3	June 20, 2022		X			

**ALLEN BATURAY, P.E.**

**For more information please contact:**

4005 Aldie Road  
Catharpin, VA 20143  
(703) 369-0004

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Sludge Incineration/Multiple Hearth Incineration	2	April 20, 2017		X			

**AMERICAN ASSOCIATION OF WATER AND WASTEWATER PROFESSIONALS (AAWWP)**

**For more information please contact:**

Dennis Campbell  
502 Research Road  
Richmond, VA 24236  
(540) 915-6293

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Wastewater Math	0.4	June 8, 2010		X	X		

**AMERICAN WATER WORKS ASSOCIATION (AWWA), VIRGINIA SECTION**

**For more information please contact:**

Sherry L. Williams  
(804) 867-9171

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Fire Hydrant and Water Main Maintenance	0.75	April 6, 1995	X				
Cross Connection Devices	1.60	November 14, 2017	X	X			

**AQUA-AEROBIC SYSTEMS, INC.**

**For more information please contact:**

Monica Gunerson  
(815) 639-4511

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

**AT YOUR PACE ONLINE**

**For more information please contact:**

Tony Bowers  
[www.aypotech.com/virginia-water-operator-continuing-education](http://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				

**CALIFORNIA STATE UNIVERSITY (SACRAMENTO)**

**For more information please contact:**

Chelsey Erickson

Office of Water Programs

6000 J Street

Sacramento, CA 95819

[www.owp.csus.edu](http://www.owp.csus.edu)

[wateroffice@owp.csus.edu](mailto:wateroffice@owp.csus.edu)

(919) 278-6142

Course	Max. Allowable TC's			Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
	Class I	Class II	Class III						
Advanced Waste Treatment	4.0	3.0	2.0	April 4, 1996		X			
CE28A-Water Treatment Plant Operation I <sub>2</sub>	1.0	2.0	4.0	June 21, 2006	X				
CE28B-Water Treatment Plant Operation II <sub>2</sub>	1.0	2.0	4.0	June 21, 2006	X				
CE29-Small Water System Operation & Maint. <sub>2</sub>		2.0		June 21, 2006	X				
Industrial Wastes, Volume I	4.0	2.0	1.0	April 4, 1996		X			
Industrial Wastes, Volume II	4.0	2.0	1.0	April 4, 1996		X			
Math Applications in Water Treatment	2.1	2.1	2.1	April 18, 2019	X	X	X	X	X
Math Applications in Water Distribution	1.9	1.9	1.9	April 18, 2019	X	X	X	X	X
Manage for Success: Effective Utility Leadership Practices	1.7	1.7	1.7	June 21, 2006	X	X	X		
Operations & Maint. Of Wastewater Collection Systems, Vol. I		2.0		April 4, 1996		X			
Operations & Maint. Of Wastewater Collection Systems, Vol. II		1.0	2.0	April 4, 1996		X			
Operation of Wastewater Treatment Plants, Vol. I	1.0	2.0	4.0	April 4, 1996		X			
Operation of Wastewater Treatment Plants, Vol. II	1.0	2.0	4.0	April 4, 1996		X			
Pretreatment Facility Inspection				April 4, 1996		X			
Small Wastewater System Operation and Maint., I	2.0	2.0	2.0	June 21, 2006		X	X		
Small Wastewater System Operation and Maint., II	2.0	2.0	2.0	June 21, 2006		X	X		
Small Water System Operation and Maintenance		2.0		April 4, 1996	X				
Small Water Systems--WAT702A-Water Sources <sub>1</sub>		0.4		June 21, 2006	X				

Small Water Systems--WAT702B-Wells <sub>1</sub>		0.4		June 21, 2006	X				
Small Water Systems-WAT720C-Small Water Treatment <sub>1</sub>		0.4		June 21, 2006	X				
Small Water Systems--WAT720D-Disinfection <sub>1</sub>		0.4		June 21, 2006	X				
Small Water Systems--WAT720E-Water Rates/Safety <sub>1</sub>		0.4		June 21, 2006	X				
Small Water Systems--WAT720F-Laboratory <sub>1</sub>		0.4		June 21, 2006	X				
Small Water Systems Video Information Series		0.6	1.2	June 21, 2006	X				
Treatment of Metal Wastestreams	2.0			April 4, 1996		X			
Utility Management	0.1	0.1	0.1	June 21, 2006	X	X			
Water Distribution System Operation and Maint.		1.0	2.0	April 4, 1996	X				
Water Systems Operation and Maint. Video Training Series		1.0	2.0	June 21, 2006	X				
Water Treatment Plant Operation, Vol. I	1.0	2.0	4.0	April 4, 1996	X				
Water Treatment Plant Operation, Vol. II	1.0	2.0	4.0	April 4, 1996	X				

**1** These courses are web versions of the components of "Small Water System Operation and Maintenance". Completion of all six courses earns a total of 2.4 TC's. As these six courses cover the same material as "Small Water System Operation and Maintenance", any person who completes "Small Water System Operation and Maintenance" and all six 0.4 credit courses will only be granted a maximum of 2.4 TC's total.

**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:**

Elizabeth Williams  
 SC Environmental Training Center  
 506 N Guignard Drive  
 Sumter, SC 29150  
[etc@cctech.edu](mailto:etc@cctech.edu)  
 (803) 778-6656

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

**CONTROL EQUIPMENT COMPANY**

**For more information please contact:**

1019 Campbell Avenue, SE  
 Roanoke, VA 24013  
 (434) 973-5111  
 (800) 572-3220

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Sodium Hypochlorite Disinfection	0.4	September 19, 2002	X	X	X		
UV Disinfection	0.4	September 19, 2002	X	X	X		

**DAVID H. PAUL, INC.**

**For more information please contact:**

Shawntay Wolfe-Martinez  
 1206 East 20th  
 Farmington, NM 87499  
 (505) 326-3431

Course	Max. Allowable TC's			Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
	Class I	Class II	Class III						
Math, Chemistry, Biology INWT 145			1.0	December 21, 2000	X	X	X		
Reverse Osmosis INWT 146	1.0	1.0	2.0	December 21, 2000	X	X			

R O Troubleshooting INWT 147	0.5	1.0	2.0	December 21, 2000	X	X			
High Purity Water from Ion INWT 160			1.0	December 21, 2000	X	X			
Ion Exchange Operation INWT 161	1.0	1.0	1.0	December 21, 2000	X	X			
Maintaining High Purity INWT 162				December 21, 2000	X	X			
Pretreatment Troubleshooting INWT 255	0.5	0.5	1.5	December 21, 2000	X	X			
Scaling and Fouling Troubleshooting INWT 256	1.5	1.5	2.0	December 21, 2000	X	X			
Advanced R O Monitoring/Cleaning INWT 257	1.5	1.5	2.0	December 21, 2000	X	X			
Feedwater & Pretreatment INWT 270			1.0	December 21, 2000	X	X			
Ion Exchange Troubleshooting INWT 271	1.0	1.5	2.0	December 21, 2000	X	X			
Post Ion Exchange INWT 272	0.5	0.5	1.5	December 21, 2000	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			

**ENVIRONMENTAL OPERATING SOLUTIONS, INC.**

**For more information please contact:**

Brendan Luther  
600 MacArthur Boulevard  
Bourne, MA 02532  
[bluther@microc.com](mailto:bluther@microc.com)  
(423) 571-3720

1930 Surgi Drive  
Mandeville, LA 70448  
(985) 675-0660

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
EOSi Principles of BNR	0.5	July 25, 2019		X	X	X	X
Wastewater Training for Westrock	1.0	March 14, 2020		X			

**(EPA) U.S. ENVIRONMENTAL PROTECTION AGENCY, WATER SECURITY DIVISION**

**For more information please contact:**

Taner Durusu  
3100 Clarendon Boulevard, Suite 400  
Arlington, VA 22201  
[taner.durusu@cadmusgroup.com](mailto:taner.durusu@cadmusgroup.com)  
(703) 247-6195

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Building Community-Based Water Resilience	0.1		X				

**FABL ENVIRONMENTAL REGULATORY SPECIALISTS, INC.**

**For more information please contact:**

Regina B. Meehan  
1102 Roe Ford Road  
Greenville, SC 29617  
[www.environmental-training.com](http://www.environmental-training.com)  
(864) 246-6668

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Wastewater Clarifications, BODS	1.0	October 29, 1999		X	X		
Wastewater Clarifications, TSS	0.5	October 29, 1999		X	X		
Wonderful World of Widgets, Materials Flow Balance Exercise	1.0	October 29, 1999					

**H & V CONSULTING, LLC**



**For more information please contact:**

Shawn H. Veltman, Principal Engineer  
106 A Landsdowne Street  
Blacksburg, VA 24060  
[www.hvconsultingcompany.com](http://www.hvconsultingcompany.com)  
(540) 951-0054

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Monogram Foods Anaerobic Digestion/ Aerobic Treatment System	2.8	January 19, 2017		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			
Biological Treatment Process II	2.1	September 7, 2010		X			
Bearings and Lubrication	2.1*	December 10, 1992	X	X	X		
Gearboxes	2.1*	December 10, 1992	X	X	X		
Incineration	2.1*	December 10, 1992		X			
Industrial Waste & Regulations	2.1	March 9, 1992		X			
Industrial Waste & Regulations (Online)	2.1	October 3, 2020		X			
Instrumentation & Controls	2.1	December 10, 1992	X	X	X		
Introduction to Wastewater	2.1*	December 10, 1992		X	X		
Treatment/Maintenance I	2.1	December 10, 1992	X	X	X		
V-Belt, Coupling and Drive Alignment*	2.1	December 10, 1992	X	X	X		
Valves and Piping Systems*	2.1	March 19, 1992	X	X	X		
Pipe & Pipefitting*	2.1	March 19, 1992	X	X	X		
Preliminary and Primary Treatment*	2.1	December 10, 1992		X			

Odor Control and Chemical Addition*	2.1	December 10, 1992		X	X		
Pumping Systems I	2.1*	December 10, 1992	X	X	X		
Pumping Systems II	2.1	December 10, 1992	X	X	X		
Shop Prints & Schematics	2.1	March 19, 1992	X	X	X		
Sanitary Chemistry I	2.1*	December 10, 1992		X			
Sanitary Chemistry II	2.1*	May 1, 2016		X			
Wastewater Analysis*	2.1*	December 10, 1992		X			
Solids Dewatering	2.1	December 10, 1992	X	X			
Solids Thickening & Digestion	2.1*	December 10, 1992		X			
Stream Ecology	2.1	December 10, 1992		X	X		
Stream Ecology (online)	2.1	March 22, 2013		X	X		
Leadership & Supervision I	2.1	March 19, 1992	X	X	X		
Leadership & Supervision II	2.1	March 19, 1992	X	X	X		
Biological Nutrient Removal I	2.1	December 10, 1992		X			
Biological Nutrient Removal II	2.1	December 10, 1992	X	X	X		
Disinfection	2.1*	December 10, 1992		X			
Wastewater Treatment I	2.1	December 10, 1992		X			
Wastewater Treatment II	2.1	December 10, 1992		X			
Wastewater Treatment III	2.1*	December 10, 1992		X			
Treatment Plant Math I	2.1	December 10, 1992		X			
Treatment Plant Math II	2.1	December 10, 1992		X			
Treatment Plant Math III	2.1	December 10, 1992		X			

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

**HEYWARD INCORPORATED OF VIRGINIA**

**For more information please contact:**

Zachary Weeks  
 2398 G. Avenue  
 Newport News, VA 23602  
 (804) 965-0086

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

**For more information please contact:**

Steve Wilson  
 2204 Griffith Drive, M/C 674  
 Champaign, IL 61820  
[info@wateroperator.org](mailto:info@wateroperator.org)  
 (866) 522-2681

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

**INDIANA STATE UNIVERSITY--OFFICE OF INDEPENDENT (CORRESPONDENCE) STUDY**

**For more information please contact:**

S.R. Wiersteiner, Ph.D.

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Class I	1.2	April 4, 1996					
Class II	0.75	April 4, 1996					
Class III	0.3	April 4, 1996					

**LEWIS AND ZIMMERMAN ASSOCIATES, INC.**

**For more information please contact:**

April Marshall  
 6110 Executive Boulevard, Suite 512  
 Rockville, MD 20852  
 (301) 984-9509

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Wastewater Training Program	8.0	October 9, 1997		X			

**LOGICAL CONCEPTS (See OmniSite)**

**LOUDON WATER**

**For more information please contact:**

Samantha Hawa  
44865 Loudon Water  
Ashburn, VA 20147  
(571) 291-7783

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Ethics and Documentation	0.10	October 24, 2019	X	X	X		

**MARYLAND CENTER FOR ENVIRONMENTAL TRAINING**

**For more information please contact:**

Karen Brandt  
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	

**MICHIGAN STATE UNIVERSITY (MSU)**

**For more information please contact:**

Virgil Langworthy  
(517) 321-6074

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

Supervisory Management in Water & Wastewater Field	3.0	September 23, 1993	X	X			
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**MILLENNEUM SCIENCE & ENGINEERING, INC.**

**For more information please contact:**

Ajit Louis  
 1364 Beverly Road, Suite 302  
 Mclean, VA 22101  
 (703) 734-1090

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Introduction to PLCs	0.5	March 9, 2004	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			

**NORTH CAROLINA STATE LABORATORY OF PUBLIC HEALTH**

**For more information please contact:**

Chris Goforth  
 P.O. Box 28047  
 Raleigh, NC 27611

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

**For more information please contact:**

Rebekah Pinkham  
 494 South Emerson Avenue, Suite E  
 Greenwood, IN 46143  
 (317) 885-6330

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

**OPERATOR CERTIFICATION TRAINING, INC.**

**For more information please contact:**

Katie L. Lewis  
 180 West Clarendon Street  
 Gladstone, OR 97027  
 (503) 650-2410

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Disinfection of Public Water Supplies Workshop	0.65	October 29, 1998	X				
Mathematics for Water Plant Operators Workshop Grades I-III	1.3	October 29, 1998	X				
Water Treatment Technology Review: Groundwater and Surface Water Plant Operations	0.65	October 29, 1998	X				

**PENN STATE UNIVERSTIY CONFERENCES AND INSTITUTES**

**For more information please contact:**

Jeanne Fudrow  
 118 Keller Building

University Park, PA 16802  
 (814) 863-6106

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Activated Sludge	0.6	December 13, 2001		X			
BOD and Metabolism	0.3	June 20, 2002		X			
Denitrification	0.3	June 20, 2002		X			
Nitrification	0.3	June 20, 2002		X			
Settleability Problems and Loss of Solids	0.3	June 20, 2002		X			

**PETER L. LAMONTAGNE, P.E.**

**For more information please contact:**  
 190 North Tamenend Avenue  
 New Britain, PA 18901  
 (215) 348-7879

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Cost Effective Centrifugation	0.6	March 8, 2004	X	X			

**SPOTSYLVANIA VOCATIONAL CENTER**

**For more information please contact:**  
 Lee Browning  
 6713 Smith Station Road  
 Spotsylvania, VA 22553  
 (703) 891-1784

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Advanced Waterworks Operator's License Review	2.3	October 6, 1994	X				
Basic Waterworks Operator's License Review	2.3	October 6, 1994	X				

**TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY (TAPPI)**

**For more information please contact:**

Karen Ventri  
15 Technology Parkway  
Norcross, GA 30092  
(404) 446-1400

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Activated Sludge Plant Operations	1.4	February 9, 1994		X	X		
Activated Sludge Short Course	0.6	July 20, 1994		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	

**TYSON FOODS, INC.**

**For more information please contact:**

Herb Suggs  
2210 Oaklawn  
P.O. Box 2020  
Springdale, AR 72765

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Industrial Pretreatment	2.9	February 9, 1994		X			

**U.S. POULTRY & EGG ASSOCIATION**

**For more information please contact:**

Paul J. Bredwell III



1530 Cooledge Road  
Tucker, GA 30084  
[www.uspoultry.org](http://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			

**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) 698-4143

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Advanced Wastewater Licensure Review	2.3	March 24, 1994		X			
Activated Sludge Process Control, Part 1	2.0	March 24, 1994		X			
Activated Sludge Process Control, Part 1 (Observations & Testing)	1.4	March 22, 2013		X			
Activated Sludge Process Control, Part 2	1.4	January 15, 2016		X			
Activated Sludge Process Control, Part 3 (Microscopic Examination)	1.4	March 22, 2013		X			
Activated Sludge Process Control, Part 4 (BNR/EBPR Process Control and Troubleshooting)	1.4	February 29, 2016		X			
Basic Lab Skills	1.0	March 7, 2007		X			
Basic Wastewater Licensure Review	2.3	March 24, 1994		X			
Chemical Oxygen Demand Workshop	0.5	October 3, 1996		X	X		
D.O. & Biochemical Oxygen Demand Workshop	1.0	January 5, 1995		X	X		
Introduction to Biological Nutrient Removal	0.7	January 15, 2016		X			
Nutrient General Permit Reporting	0.3	December 4, 2008		X			
Operator In-Service Training	0.05	March 24, 1994		X			

Package Treatment Plant Operation Workshop	1.3	September 9, 2003		X			
Sampling & Testing for Small Wastewater Treatment Plants	1.0	April 15, 1999		X			
Total & Volatile Suspended Solids Sampling and Testing Workshop	0.5	July 11, 1996		X			
Total Residual Chlorine & Ph Workshop	1.0	January 5, 1995		X			
VPDES Permit Recordkeeping and Reporting	0.35	September 14, 2005		X			
Wastewater Math for Operators	2.0	September 14, 2005		X			
Wastewater Operator Correspondence Course	4.0	March 24, 1994		X			
Wastewater Sampling & Testing Ammonia & TKN Workshop	1.0	October 5, 1995		X			
Wastewater Sampling & Testing: Ammonia Nitrogen	0.5	April 9, 1998		X			
Wastewater Sampling & Testing Nitrate & Nitrite Nitrogen	1.0	June 24, 1999		X			
Wastewater Sampling & Testing: Phosphorus	1.0	June 8, 2010		X			
Wastewater Works Operator Licensure Review	2.4	October 24, 2019		X			

**VIRGINIA DEPARTMENT OF HEALTH (VDH) LEXINGTON ENVIRONMENTAL HEALTH ENGINEERING FIELD OFFICE**

**For more information please contact:**

Doug Caldwell  
1311 Walker Street  
Lexington, VA 24450  
(703) 463-3892

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Water Storage Tank Management Seminar	0.5	April 6, 1995	X				

**VIRGINIA RURAL WATER ASSOCIATION (VRWA)**

**For more information please contact:**

Andy Crocker  
2138 Sycamore Avenue  
Buena Vista, VA 24416

(540) 261-7178

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Clean Water Act	0.6	June 15, 1993	X	X			
Collection of Drinking Water Samples	0.3	January 8, 1998	X				
Corrosion Control & Lead and Copper Rule	0.5	September 23, 1993	X				
Cross-Connection & Backflow Prevention	0.4	July 20, 1994	X	X	X		
Establishing a Preventative Maintenance Mgmt Program	0.3	June 15, 2000	X	X	X		
Gas Chlorination Operation, Management & Repair	0.5	September 23, 1993	X	X			
Safe Drinking Water	0.5	July 21, 1993	X				
Steel Storage Tank Inspection & Maintenance	0.5	October 5, 1995	X				
Wastewater Works Licensing Examination Preparation	0.5	July 21, 1993	X				
Waterworks Operator Licensing Examination Preparation	0.6	July 20, 1994		X			

**VIRGINIA TECH WATERWORKS/WASTEWATER WORKS ANNUAL OPERATORS SHORT SCHOOL**

**For more information please contact:**

Colleen Bartos

[cbartos@vt.edu](mailto:cbartos@vt.edu)

(540) 231-7832

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

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

**VIRGINIA WESTERN WORKFORCE DEVELOPMENT SERVICES**

**For more information please contact:**

Sandy Workman

3074 Colonial Avenue SW

Roanoke, VA 24015  
 (540) 857-6076

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

**WATER ENVIRONMENT FEDERATION**

**For more information please contact:**

Steven Wisdom  
 601 Wythe Street  
 Alexandria, VA 22314  
 (703) 684-2400

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Operations Training/Activated Sludge/Process Control	2.0	September 21, 2000		X			
Operations Training/Pumps Operation and Maintenance	2.0	June 15, 2000	X	X	X		
Operations Training/Solids Handling	1.5	March 21, 2002		X			
Operation Training/Wastewater Treatment	4.0	June 15, 2000		X			

**WATER POLLUTION BIOLOGY**

**For more information please contact:**

Michael H. Gerardi  
 196 Hemlock Lane  
 Linden, PA 17744  
 (570) 398-7260

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
A Correspondence Course in Wastewater Microbiology: Nitrification in the Activated Sludge Process	1.0	October 29, 1998		X			
Wastewater Microbiology	0.4	March 22, 2001		X	X		



















































