

**EDUCATION AND TRAINING COMMITTEE OF THE
VIRGINIA BOARD FOR WATERWORKS AND WASTEWATER WORKS OPERATORS
AND ONSITE SEWAGE SYSTEM PROFESSIONALS**

***Tentative* AGENDA TUESDAY, MAY 16, 2023
10:00 A.M. HEARING ROOM 4-- SECOND FLOOR**

**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL
REGULATION PERIMETER CENTER -- 9960 MAYLAND DRIVE
RICHMOND, VIRGINIA 23233**

I. CALL TO ORDER

II. EMERGENCY EVACUATION PROCEDURES

III. APPROVAL OF AGENDA

- a. Committee Agenda, May 16, 2023

IV. PUBLIC COMMENT PERIOD*

V. RESOURCES

- a. Part V of 18VAC-160-30

**V. REVIEW OF NEWLY SUBMITTED TRAINING COURSES BY CURRENTLY
APPROVED PROVIDERS****

- a. David H. Paul, Inc.
 - i. Reverse Osmosis Specialist I Certification
 - ii. Introduction to Water Treatment
 - iii. Water Treatment Plant Fundamentals
 - iv. Water Treatment Math
 - v. Water Treatment Chemistry
 - vi. Piping and Instrumentation Diagrams
 - vii. Reverse Osmosis Water Treatment
 - viii. RO operation & Maintenance
 - ix. Reverse Osmosis Monitoring & Troubleshooting
 - x. Membrane Filtration 101
 - xi. Ion Exchange Water Treatment
 - xii. Distillation
 - xiii. OCM of RO System – ROSII
- b. Virginia Western Workforce Development Services
 - i. Using the ABC Water Treatment Formula Table
- c. Sacramento State Office of Water Programs (Updates to Currently Approved Courses)
 - i. Advanced Waste Treatment
 - ii. Water Treatment Plant Operation, Vol. I
 - iii. Water Treatment Plant Operation, Vol. II
 - iv. Small Water System Operation and Maintenance
 - v. Industrial Waste Treatment, Vol. I
 - vi. Industrial Waste Treatment, Vol. II

- vii. Operation and Maintenance of Wastewater Collection Systems, Vol. I
viii. Small Wastewater System Operation & Maintenance. Vol. I
ix. Small Wastewater System Operation & Maintenance, Vol. II
x. 702A Small Water Systems: Wells
xi. 702B Small Water Systems: Treatment Plants
xii. 702C Small Water Systems: Disinfection
xiii. 702D Small Water Systems: Safety and Introduction to Small System Management
xiv. 702E Small Water Systems: Laboratory Procedures
xv. Utility Management
xvi. Water Distribution System Operation and Maintenance
xvii. Water Treatment Plant Operation, Vol. I
xviii. Water Treatment Plant Operation, Vol. II

VI. REVIEW CURRENTLY APPROVED TRAINING PROGRAMS AND COURSES

VII. OTHER BUSINESS

VIII. ADJOURN

NEXT MEETING TENTATIVELY SCHEDULED FOR JULY 27, 2023

* Five minute public comment, per person, with the exception of any open disciplinary or application files.

** Agenda materials made available to the public do not include disciplinary case files or application files pursuant to §54.1-108 of the *Code of Virginia*.

Persons desiring to participate in the meeting and requiring special accommodations or interpretative services should contact the Department at (804) 367-0362 at least ten days prior to the meeting so that suitable arrangements can be made for an appropriate accommodation. The Department fully complies with the Americans with Disabilities Act.

PERIMETER CENTER CONFERENCE CENTER
EMERGENCY EVACUATION OF BOARD AND TRAINING ROOMS
(Script to be read at the beginning of each meeting.)

PLEASE LISTEN TO THE FOLLOWING INSTRUCTIONS ABOUT EXITING THE PREMISES IN THE EVENT OF AN EMERGENCY.

In the event of a fire or other emergency requiring the evacuation of the building, alarms will sound. When the alarms sound, leave the room immediately. Follow any instructions given by Security staff

Board Room 1

Exit the room using one of the doors at the back of the room. Upon exiting the room, turn **RIGHT**. Follow the corridor to the emergency exit at the end of the hall.

Upon exiting the building, proceed straight ahead through the parking lot to the fence at the end of the lot. Wait there for further instructions.

Board Room 2

Exit the room using one of the doors at the back of the room. (Point) Upon exiting the room, turn **RIGHT**. Follow the corridor to the emergency exit at the end of the hall.

Upon exiting the building, proceed straight ahead through the parking lot to the fence at the end of the lot. Wait there for further instructions.

You may also exit the room using the side door, turn **Right** out the door and make an immediate **Left**. Follow the corridor to the emergency exit at the end of the hall.

Upon exiting the building, proceed straight ahead through the parking lot to the fence at the end of the lot. Wait there for further instructions.

Board Rooms 3 and 4

Exit the room using one of the doors at the back of the room. Upon exiting the room, turn **RIGHT**. Follow the corridor to the emergency exit at the end of the hall.

Upon exiting the building, proceed straight ahead through the parking lot to the fence at the end of the lot. Wait there for further instructions.

Training Room 1

Exit the room using one of the doors at the back of the room. Upon exiting the room, turn **LEFT**. Follow the corridor to the emergency exit at the end of the hall.

Upon exiting the building, proceed straight ahead through the parking lot to the fence at the end of the lot. Wait there for further instructions.

Training Room 2

Exit the room using one of the doors at the back of the room. Upon exiting the doors, turn **LEFT**. Follow the corridor to the emergency exit at the end of the hall.

Upon exiting the building, proceed straight ahead through the parking lot to the fence at the end of the lot. Wait there for further instructions.

PUBLIC COMMENT PERIOD

Five minute public comment, per person, with the exception of any open disciplinary or application files.

DRAFT AGENDA
Materials contained in this agenda are proposed topics for discussion
and are not to be construed as a question or official Board decision.
DRAFT AGENDA

Virginia Administrative Code

Part V. Training Course Approval

18VAC160-30-240. Approval of training courses.

A. Training courses may be substituted for experience pursuant to the provisions of Part II ([18VAC160-30-20](#) et seq.) of this chapter. With the exception of training courses provided pursuant to [18VAC160-30-280](#), training courses that may be substituted for required experience must be approved by the board prior to commencing.

B. Each training provider seeking course approval shall submit an application for approval on a form provided by the board. Only classroom, laboratory, and field trip contact time will be used to compute training credits. No credit will be given for breaks, meals, or receptions.

1. Organization. The board will only approve training offered by a provider that is an identifiable organization with a mission statement outlining its functions, structure, process, and philosophy and that has a staff of one or more persons with the authority to administer and coordinate a training course.

2. Training course records. The board will only approve training offered by a provider that maintains training course records for all participants for a minimum of seven years and that has a written policy on retention and release of training course records.

3. Instructors. The board will only approve training conducted by personnel who have demonstrated competence in the subject being taught, an understanding of the learning objective, and knowledge of the learning process to be used.

4. Objectives. The board will only approve courses that have a series of stated objectives that are pertinent to the tasks performed by a licensee. The training course content must be consistent with those objectives.

5. Course completion requirements. For successful completion of a training course, participants must attend 90% or more of the class contact time and must demonstrate their learning through written examinations, completion of a project, oral examination, or other similar assessment technique.

Statutory Authority

§§ [54.1-201](#) and [54.1-2301](#) of the Code of Virginia.

Historical Notes

Derived from Virginia Register [Volume 33, Issue 11](#), eff. April 1, 2017.

18VAC160-30-250. Application for training course approval.

A. The board shall consider the following information, to be submitted by the course provider or instructor on forms provided by the board:

1. Course information.

a. Course title;

- b. Planned audience;
- c. Name of provider;
- d. Name, physical address, email address, and phone number of contact person;
- e. Scheduled presentation dates;
- f. Detailed course schedule, hour-by-hour, including start and ending times;
- g. List of planned breaks;
- h. Scheduled presentation location; and
- i. Identification of the category and classification of license to which the course is applicable and relevancy to the identified license type.

2. Instructor qualifications.

- a. Name of instructor;
- b. Title;
- c. Employer;
- d. Board license number or numbers, if applicable; and
- e. Summary of qualifications to teach the course.

3. Training materials.

- a. Course objectives. A listing of the course objectives stated in terms of the skills and knowledge the participant will be able to demonstrate as a result of the training.
- b. Course outline. A detailed outline showing the planned activities that will occur during the training course, including major topics, planned presentation sequence, laboratory and field activities, audiovisual presentation, and other major activities.
- c. Course reference materials. A list of the name, publisher, and publication date for commercially available publications. For reference materials developed by the course provider or available exclusively through the course, a copy of the reference.
- d. Audiovisual support materials. A listing of any commercially available audiovisual support material that will be used in the program. A brief description of any provider or instructor generated audiovisual material that will be used.
- e. Handouts. Identification of all commercially available handout materials that will be used, as well as copies of all other planned handouts.

- 4. Determination of successful completion. A description of the means that will be used to assess the learning of each participant to determine successful completion of the training program, such as examinations, projects, personal evaluations by the instructor, or other recognized evaluation techniques. Correspondence and other distance learning courses must include appropriate testing procedures to verify completion of the course.

B. Recurring training programs. If there are plans to present the same course of instruction routinely at multiple locations with only minor modifications and changes, the board may approve the overall program rather than individual presentations if so requested by the provider.

1. The board shall consider all of the information listed in subsection A of this section except those items related to specific offerings of the course.

2. Board approval will apply only to those specific offerings certified by the provider as having been conducted by instructors meeting the established criteria and in accordance with the board-approved course outlines and objectives.

Statutory Authority

§§ [54.1-201](#) and [54.1-2301](#) of the Code of Virginia.

Historical Notes

Derived from Virginia Register [Volume 33, Issue 11](#), eff. April 1, 2017.

18VAC160-30-260. Maintenance of training approval.

A. At times established by the board, the board may require that course providers that have previously obtained course approval provide the board with evidence, in a form set forth by the board, that the provider continues to comply with the requirements of this chapter. Failure to continue to comply with the board's requirements or respond to such a request may result in the board withdrawing its approval.

B. Substantial modifications or changes to the information provided in [18VAC160-30-240](#) and [18VAC160-30-250](#) must be reported to the board within 30 days of the change. Failure to report the changes as required may result in the withdrawal of approval by the board.

C. Any change of the address of the training provider shall be reported in writing within 30 days of the change.

D. The board may conduct an audit of the training provider to ensure compliance with this chapter.

Statutory Authority

§§ [54.1-201](#) and [54.1-2301](#) of the Code of Virginia.

Historical Notes

Derived from Virginia Register [Volume 33, Issue 11](#), eff. April 1, 2017.

18VAC160-30-270. Withdrawal of approval.

The board may withdraw approval of any provider for the following reasons:

1. The courses being offered no longer meet the standards established by the board.

2. The provider, through an agent or otherwise, advertises its services in a fraudulent or deceptive manner.

3. The provider, instructor, or designee of the provider falsifies any information relating to the application for approval, course information, and student records.

4. The provider fails to respond to the board or any of its agents.

Statutory Authority

§§ [54.1-201](#) and [54.1-2301](#) of the Code of Virginia.

Historical Notes

Derived from Virginia Register [Volume 33, Issue 11](#), eff. April 1, 2017.

18VAC160-30-280. Training courses offered by certain entities; board approval not required.

A. Training courses provided by (i) federal, state, or local government agencies; (ii) accredited colleges or universities approved or accredited by the Commission on Colleges of the Southern Association of Colleges and Schools; (iii) a regional or national accreditation association; or (iv) an accrediting agency that is recognized by the U.S. Secretary of Education do not require board approval to be used for experience substitution, provided the training course information submitted to the board includes the following:

1. The course must include the continuing education units awarded by the entity.
2. The course's subject matter must be related to the license category and classification, if applicable, for which experience substitution is sought.

B. The board may request additional information from the provider as necessary to ensure compliance with this section. If such assurance cannot be made by the board, the training course may not be used for experience substitution, or the provider may pursue board approval pursuant to this chapter.

Statutory Authority

§§ [54.1-201](#) and [54.1-2301](#) of the Code of Virginia.

Historical Notes

Derived from Virginia Register [Volume 33, Issue 11](#), eff. April 1, 2017.

Website addresses provided in the Virginia Administrative Code to documents incorporated by reference are for the reader's convenience only, may not necessarily be active or current, and should not be relied upon. To ensure the information incorporated by reference is accurate, the reader is encouraged to use the source document described in the regulation.

As a service to the public, the Virginia Administrative Code is provided online by the Virginia General Assembly. We are unable to answer legal questions or respond to requests for legal advice, including application of law to specific fact. To understand and protect your legal rights, you should consult an attorney.

ALLEN BATURAY, P.E.

For more information please contact:

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

left message 4/3/23
4/27/2023

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)

no info on AAWWP since
2011

For more information please contact:

Dennis Campbell

Address points to another
company; per
google, temporarily
closed

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

number not valid

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

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		
Distribution System Review (4 hrs.)	0.4	January 26, 2023	X				
	0.2			X	X		
Distribution System Review (8 hrs.)	0.8	January 26, 2023	X				
	4.0			X	X		
Distribution System Review (12 hrs.)	1.2	January 26, 2023	X				
	.6			X	X		
Distribution System Review (16 hrs.)	1.6	January 26, 2023	X				
	.8			X	X		
Electricity for the Water Industry	1.3	January 26, 2023	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		
Wastewater Treatment Review (12 hrs.)	1.2	January 26, 2023		X	X		
Wastewater Treatment Review (21 hrs.)	2.1	January 26, 2023		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		
Water Transmission and Distribution I	4.8	January 26, 2023	X				
	2.1			X	X		
Water Transmission and Distribution II	4.8	January 26, 2023	X				
	1.4			X	X		
Water Treatment Math	3.6	January 26, 2023	X	X	X		
Water Treatment Review (4 hrs.)	0.4	January 26, 2023	X				
	0.2			X	X		
Water Treatment Review (8 hrs.)	0.8	January 26, 2023	X				
	0.4			X	X		

Water Treatment Review (12 hrs.)	1.2	January 26, 2023	X				
	0.6			X	X		
Water Treatment Review (16 hrs.)	1.6	January 26, 2023	X				
	0.8			X	X		
Waterworks Operator Class 1	3.9	January 26, 2023	X				
	1.9			X	X		
Waterworks Operator Class 2	3.6	January 26, 2023	X				
	1.8			X	X		
Waterworks Operator Class 3	3.5	January 26, 2023	X				
	1.7			X	X		
Waterworks Operator Class 4	3.3	January 26, 2023	X				
	1.6			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			

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			

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				

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	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 ₂	1.0	2.0	4.0	June 21, 2006	X				
CE28B-Water Treatment Plant Operation II ₂	1.0	2.0	4.0	June 21, 2006	X				
CE29-Small Water System Operation & Maint. ₂		2.0		June 21, 2006	X				
Disinfection, Laboratory Procedures, and Math	4.3	4.3	4.3	October 28, 2021	X	X			
Industrial Waste Treatment, Volume I	4.0	2.0	1.0	April 4, 1996		X			
Industrial Waste Treatment, 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	6.4	6.4	November 3, 2021		X			
Pretreatment Facility Inspection	7.5	7.5	7.5	October 28, 2021		X		
Safety, Beginning Treatment, and Lagoon Systems	4.0	4.0	4.0	October 28, 2021		X		
	2.0	2.0	2.0	October 28, 2021	X			
Secondary Treatment	3.6	3.6	3.6	October 28, 2021		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			
702A Small Water Systems--Wells ₁		0.4		June 21, 2006	X			
702B Small Water Systems--Treatment Plants ₁		0.4		June 21, 2006	X			
702C Small Water Systems--Disinfection ₁		0.4		June 21, 2006	X			
702D Small Water Systems--Safety & Introduction to Small System Management ₁		0.4		June 21, 2006	X			
702E Small Water Systems--Lab Procedures ₁		0.4		June 21, 2006	X			
Small Water Systems Video Information Series		0.6	1.2	June 21, 2006	X			
Treatment of Metal Wastestreams	2.6	2.6	2.6	October 28, 2021		X		
	1.3	1.3	1.3	October 28, 2021	X			
Utility Management	0.1	0.1	0.1	June 21, 2006	X	X		
Water Distribution System Operation and Maintenance		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			
Operation of Wastewater Treatment Plants, Vol. 2A	3.5		January 26, 2023		X			
Treatment Plants and Tertiary Treatments	2.8			X				
Operation of Wastewater Treatment Plants, Vol. 2B	4.0		January 26, 2023		X			
Solids Management and Plant Maintenance	1.7			X				
	2.2		April 20, 2023	X	X			
703A-Water Distribution: Safety	1.1						X	
	3.1			X	X			

703B-Water Distribution: Distribution Facilities	1.5	April 20, 2023			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 Vol. I-Wastewater Specialist Program	9.0 4.5	April 20, 2023		X			
CE38B-Operation of Wastewater Treatment Plants Vol. II-Wastewater Specialist Program	12.0 6.1	April 20, 2023		X			
CE39-Advanced Waste Treatment Wastewater Specialist Program	10.5 5.2	April 20, 2023		X			
Collection Systems: Methods for Evaluating and Improving Performance	2.3 1.1	April 20, 2023	X	X			
104C-Math Application in Wastewater	3.8	April 20, 2023	X	X	X		
101C-Math Application in Collection Systems	2.2	April 20, 2023	X	X	X		
Membrane Bioreactors	8.7 4.3	April 20, 2023		X			
Collection System Operation & Maintenance Training Videos	6.8	April 20, 2023	X	X	X		
Pretreatment Facility Inspection Training Videos	5.9 2.9	April 20, 2023		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:

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 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				

DAVID H. PAUL, INC.

For more information please contact:

Darrell Cunningham
 1911 Rustic Place
 Farmington, NM 87401
dcunningham@dhptraining.com
 (505) 326-3431

Course	Max. Allowable TC's			Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
	Class I	Class II	Class III						
(TB101) Math, Chemistry, Biology INWT 145			1.0	December 21, 2000	X	X	X		
(TB102) Reverse Osmosis INWT 146	1.0	1.0	2.0	December 21, 2000	X	X			
(TB103) R O Troubleshooting INWT 147	0.5	1.0	2.0	December 21, 2000	X	X			
(TB301) High Purity Water from Ion INWT 160			1.0	December 21, 2000	X	X			
(TB302) Ion Exchange Operation INWT 161	1.0	1.0	1.0	December 21, 2000	X	X			

(TB303) Maintaining High Purity INWT 162			December 21, 2000	X	X			
(TB201) Pretreatment Troubleshooting INWT 255	0.5	0.5	1.5	December 21, 2000	X	X		
(TB202) Scaling and Fouling Troubleshooting INWT 256	1.5	1.5	2.0	December 21, 2000	X	X		
(TB203) Advanced R O Monitoring/Cleaning INWT 257	1.5	1.5	2.0	December 21, 2000	X	X		
(TB401) Feedwater & Pretreatment INWT 270			1.0	December 21, 2000	X	X		
(TB402) Ion Exchange Troubleshooting INWT 271	1.0	1.5	2.0	December 21, 2000	X	X		
(TB403) Post Ion Exchange INWT 272	0.5	0.5	1.5	December 21, 2000	X	X		
Reverse Osmosis Specialist I								
(OLC110) Introduction to Water Treatment								
(OLC111) Water Treatment Plant Fundamentals								
(OLC112) Water Treatment Math								
(OLC113) Water Treatment Chemistry								
(OLC115) Piping and Instrumentation Diagrams								
(OLC116) Reverse Osmosis Water Treatment								
(OLC117) Reverse Osmosis Operation & Maintenance								
(OLC118) Reverse Osmosis Monitoring & Troubleshooting								
(OLC120) Membrane Filtration 101								
(OLC411) Ion Exchange Water Treatment								
(OLC413) Distillation								
(OLC501) OCM of RO Ssystem-ROSII								

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
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

FABL ENVIRONMENTAL REGULATORY SPECIALISTS, INC.

For more information please contact:

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

domain not active
google search no results
single family home

number not it service

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					

Va company inactive
as of 2022. Google
search points to firm in
NY

H & V CONSULTING, LLC

For more information please contact:

Shawn H. Veltman, Principal Engineer

106 A Landsdowne Street
 Blacksburg, VA 24060
www.hvconsultingcompany.com

(540) 951-0054

Single family home

domain not active
 Unable to get thru-not
 accepting messages

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		
Incineration	2.1*	December 10, 1992		X			
Instrumentation & Controls Fundamentals of Electricity and Instrumentation	2.1	December 10, 1992	X	X	X		
Introduction to Wastewater Treatment & Maintenance 1	2.1*	December 10, 1992		X	X		
Introduction to Treatment & Maintenance 2	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 Shop Prints & Mechanical Drawing	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 Biosolids Processing	2.1	December 10, 1992	X	X			
Solids Thickening & Digestion Solids Handling & Management	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		
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			
Treatment Plant Math I	2.1	December 10, 1992		X			
Treatment Plant Math II	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:

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			

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				

LEWIS AND ZIMMERMAN ASSOCIATES, INC.

For more information please contact:

April Marshall

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

web search shows
address in Columbia
MD permanently closed

address not listed for
company since 2018

number not in service

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

LOUDON WATER

For more information please contact:

Samantha Hawa
44865 Loudon Water
Ashburn, VA 20147
(571) 291-7700

left message April
emailed 5/1

followed up 5/4

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:

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	

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			
Supervisory Management in Water & Wastewater Field	3.0	September 23, 1993	X	X			

MILLENNEUM SCIENCE & ENGINEERING, INC.

For more information please contact:

Ajit Louis
1364 Beverly Road, Suite 302
McLean, VA 22101

site can't be reached

email found on web
search failed
mkoppelt@mse-
environmental.com

(703) 734-1090

number not in service

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:

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				

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		

OPERATOR CERTIFICATION TRAINING, INC.

For more information please contact:

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

web search no results

address is residence

number not in service

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				

PETER L. LAMONTAGNE, P.E.

For more information please contact:

190 North Tamenend Avenue
 New Britain, PA 18901
 (215) 348-7879

web search provided
 email--emailed 3/27

called 5/1, left message
 voicemail no name,
 female voice

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

No info on website

no web results for name
multiple phone numbers
on websearch

emailed 4/11 no
response

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
Industrial Pretreatment	2.9	February 9, 1994		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
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Wastewater Treatment Plant Operations Class C&B Training Course--Online	14.7	October 27, 2022		X	X		
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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			

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			
DEQ 14: Activated Sludge Process Control, Part 2 (Process Control & Troubleshooting)	1.4	January 15, 2016		X			
DEQ 21: Activated Sludge Process Control, Part 3 (Microscopic Examination)	1.4	March 22, 2013		X			
DEQ 22: Activated Sludge Process Control, Part 4 (BNR/EBPR Process Control and Troubleshooting)	1.4	February 29, 2016		X			
DEQ 19: Basic Lab Skills	1.0	March 7, 2007		X			

DEQ 18: Introduction to Biological Nutrient Removal (BNR)	0.7	January 15, 2016		X			
DEQ 17: Nutrient General Permit Reporting	0.3	December 4, 2008		X			
DEQ 15: Package Treatment Plant Operation Workshop	1.3	September 9, 2003		X			
DEQ 12: Sampling & Testing for Small Wastewater Treatment Plants	1.0	April 15, 1999		X			
DEQ 16: VPDES Permit Recordkeeping and Reporting	0.35	September 14, 2005		X			
DEQ 20: Wastewater Math for Operators	2.0	September 14, 2005		X			
DEQ 100: 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

called,
 directed to Tony Singh
 emailed 4/12
 emailed 5/1

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

VIRGINIA TECH WATERWORKS/WASTEWATER WORKS ANNUAL OPERATORS SHORT SCHOOL

For more information please contact:

cpeinfo@vt.edu
 (540) 231-5182

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:

Bryan Walke
 3074 Colonial Avenue SW
 Roanoke, VA 24015
 bwalke@viriniawestern.edu
 (540) 857-6492

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

WATER ENVIRONMENT FEDERATION

For more information please contact:

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

emailed 3/31
 emailed 5/2

follow up 5/4

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			

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, 2002		X			
BNR and Methanol	0.3	June 20, 2002		X			
Centrifuge Thickening	0.3	June 20, 2002		X			
Filtration System	0.3	June 20, 2002	X	X	X		
Primary Effluent Pumping	0.3	June 20, 2002		X	X		
Process Air	0.3	June 20, 2002		X	X		
Solids Overview	0.3	June 20, 2002		X	X		
SSTS, RAS, and WAS Systems	0.3	June 20, 2002		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 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		
Distribution System Review (4 hrs.)	0.4	January 26, 2023	X				
	0.2			X	X		
Distribution System Review (8 hrs.)	0.8	January 26, 2023	X				
	4.0			X	X		
Distribution System Review (12 hrs.)	1.2	January 26, 2023	X				
	.6			X	X		
Distribution System Review (16 hrs.)	1.6	January 26, 2023	X				
	.8			X	X		
Electricity for the Water Industry	1.3	January 26, 2023	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		
Wastewater Treatment Review (12 hrs.)	1.2	January 26, 2023		X	X		
Wastewater Treatment Review (21 hrs.)	2.1	January 26, 2023		X	X		
	4.1		X				

Water Quality	3.5	January 26, 2023		X			
Water Sources	2.0	January 26, 2023	X				
	1.0			X	X		
	4.8			X			
Water Transmission and Distribution I	2.1	January 26, 2023		X	X		
	4.8			X			
Water Transmission and Distribution II	1.4	January 26, 2023		X	X		
	3.6			X	X	X	
Water Treatment Math	0.4	January 26, 2023	X				
	0.2			X	X		
Water Treatment Review (4 hrs.)	0.8	January 26, 2023	X				
	0.4			X	X		
Water Treatment Review (8 hrs.)	1.2	January 26, 2023	X				
	0.6			X	X		
Water Treatment Review (12 hrs.)	1.6	January 26, 2023	X				
	0.8			X	X		
Water Treatment Review (16 hrs.)	3.9	January 26, 2023	X				
	1.9			X	X		
Waterworks Operator Class 1	3.6	January 26, 2023	X				
	1.8			X	X		
Waterworks Operator Class 2	3.5	January 26, 2023	X				
	1.7			X	X		
Waterworks Operator Class 3	3.3	January 26, 2023	X				
	1.6			X	X		
Waterworks Operator Class 4							

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
(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
wateroffice@owp.csus.edu
(919) 278-6142

Course	Max. Allowable TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
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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 ₂	1.0	2.0	4.0	June 21, 2006	X				
CE28B-Water Treatment Plant Operation II ₂	1.0	2.0	4.0	June 21, 2006	X				
CE29-Small Water System Operation & Maint. ₂		2.0		June 21, 2006	X				
Disinfection, Laboratory Procedures, and Math	4.3	4.3	4.3	October 28, 2021	X	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		6.4	6.4	November 3, 2021		X			
Operation of Wastewater Treatment Plants, Vol. II	1.0	2.0	4.0	April 4, 1996		X			
Pretreatment Facility Inspection	7.5	7.5	7.5	October 28, 2021		X			
Safety, Beginning Treatment, and Lagoon Systems	4.0	4.0	4.0	October 28, 2021		X			
	2.0	2.0	2.0	October 28, 2021	X				
Secondary Treatment	3.6	3.6	3.6	October 28, 2021		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 ₁		0.4		June 21, 2006	X				
Small Water Systems--WAT702B-Wells ₁		0.4		June 21, 2006	X				
Small Water Systems-WAT720C-Small Water Treatment ₁		0.4		June 21, 2006	X				
Small Water Systems--WAT720D-Disinfection ₁		0.4		June 21, 2006	X				
Small Water Systems--WAT720E-Water Rates/Safety ₁		0.4		June 21, 2006	X				
Small Water Systems--WAT720F-Laboratory ₁		0.4		June 21, 2006	X				
Small Water Systems Video Information Series		0.6	1.2	June 21, 2006	X				
Treatment of Metal Wastestreams	2.6	2.6	2.6	October 28, 2021		X			
	1.3	1.3	1.3	October 28, 2021	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				
Operation of Wastewater Treatment Plants, Vol. 2A Treatment Plants and Tertiary Treatments	3.5 2.8	January 26, 2023	X	X			
Operation of Wastewater Treatment Plants, Vol. 2B Solids Management and Plant Maintenance	4.0 1.7	January 26, 2023	X	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
 (803) 778-6656

Course	TC's	Approval Date	WWO	WWWO	OSSO	OSSI	OSSE
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
 (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				
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(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
 (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
 (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

(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
Regional Pump School	0.6	December 7, 2017		X			

ILLINOIS STATE WATER SURVEY

For more information please contact:

Steve Wilson

2204 Griffith Drive, M/C 674

Champaign, IL 61820

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			

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
Bacteriological Methods for the Analysis of Drinking Water	1	April 16, 2015	X				

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			

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		

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			

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

(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			
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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		

OTHER BUSINESS

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