

Operator Training Committee of Ohio, Inc.

47th Water Distribution Workshop

Tuesday, December 6, 2016

&

Wednesday December 7, 2016



“Do not allow your legal requirements for continuing education be mistaken for your

continuing education.”



RCAP's Webpage

OEPA-B397326-X Utility Management -Part I Management Capacity 2.00

OEPA-B397332-X Utility Management -Part III Financial Capacity 1.75

OEPA-B397329-X Utility Management-Part II Technical Capacity 1.25

Subtotal 5.00

Ohio EPA's Webpage

Class A Water Operator Training (OM) 6.00

Total 11.00



1947 OTC Created

1964 OTCO Created

1964 OTCO Class III/IV Workshop

1979 Water Distribution Workshop



OTCO

The primary focus of the Operator Training Committee of Ohio, Inc. is to design, develop, and deliver various types of training programs for individuals in water and wastewater utility occupation, in business, industrial, and government.

OEPA

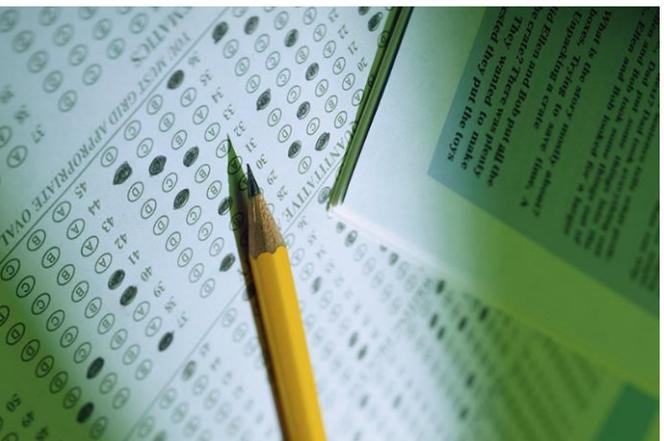
Our mission is to protect the environment and public health by ensuring compliance with environmental laws and demonstrating leadership in environmental stewardship.



OhioEPA



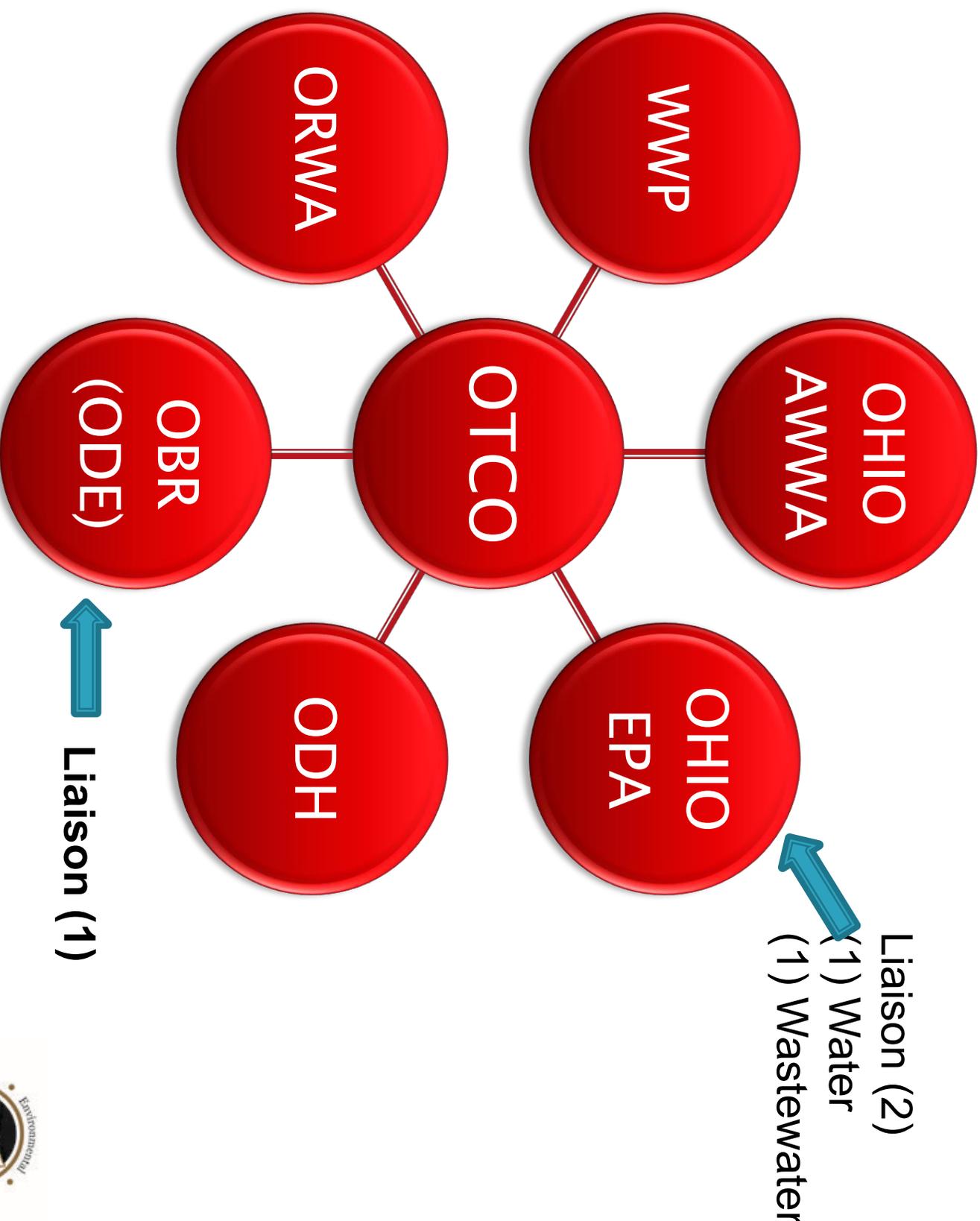
Operator Certification



Operator Training



OTCO's Board of Trustees & Liaisons



Board of Trustees (2016-2017)

Steve Elliott, Marietta (WWIV)

Tom Taylor, Madison County (WWIII)

George Culver, Lake Wynoka (WIII/WWI)

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Keshia Kinney, Dayton (WIII)

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Andy Cantanzarite, Niles (WI, WWIV)

Charlie Queen, Gallia Co (WIV)

Jason Phillips, Ottawa (WIII, WWIII)

Ed Dorbina, Pickerington (WIII, WWIV)

LIASIONS

Andy Barienbrock, OEPA-W

Ashely Ward, OEPA-WW

Linda O'Connor, ODE -W/WW

Gary Dursch, Statutory Agent (WIV)



Environmental Careers

Water Environment Technician

Careers in drinking water and
wastewater treatment operations



Exit Boomers



Enter Millennials



Broadens the scope of services available to the
wastewater Professionals



Establish a state wide operator based associates degree program approved by the Ohio Board of Regents while allowing life learning credit for current certified Ohio operators

Associates Degree Water and Wastewater Environmental Science
elements of program

Principles of Biology

Communications COM 101 (online)

English Comp I

ENG 101 (online)

English Comp II (online)

College Algebra

Environment Sustainability

Environmental Field Biology

Chemistry I

Psychology PSY 101 (online)

College Trig/Geometry

Technical Writing ENG

Environmental Geology(online)

Statistics MTH 128 (online)

Environmental and Natural Resources Policy, Law & Ethics (online)



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approved by the Ohio Board of Regents while allowing life
learning credit for current certified Ohio operators

Associates Degree Water and Wastewater Environmental Science

- 1) OTCO Basic Wastewater
- 2) OTCO Wastewater Collection
- 3) OTCO Basic Water
- 4) OTCO Water Distribution
- 5) OTCO Basic Math Wastewater & Water
- 6) OTCO Basic Lab
- 7) ~~OTCO Utility Management~~

21 Credit Hours

46 Electives Hours

67 Total Hours



August 13, 2015



Ready To Work

Offered through WSOS Community Action Commission, Ready to Work provides career training for long-term unemployed or underemployed, as well as veterans or spouses of veterans. Ready to Work offers training for residents of Allen, Crawford, Defiance, Fulton, Hardin, Hancock, Henry, Lucas, Ottawa, Paulding, Putnam, Sandusky, Seneca, Van Wert, Williams, Wood, and Wyandot counties.



INFOhio

tools to support



FOR A HIGH SCHOOL DIPLOMA

INFOhio provides instructional tools that put reliable digital content into context and promote information literacy, digital literacy, and college and career readiness.

Content
Mastery

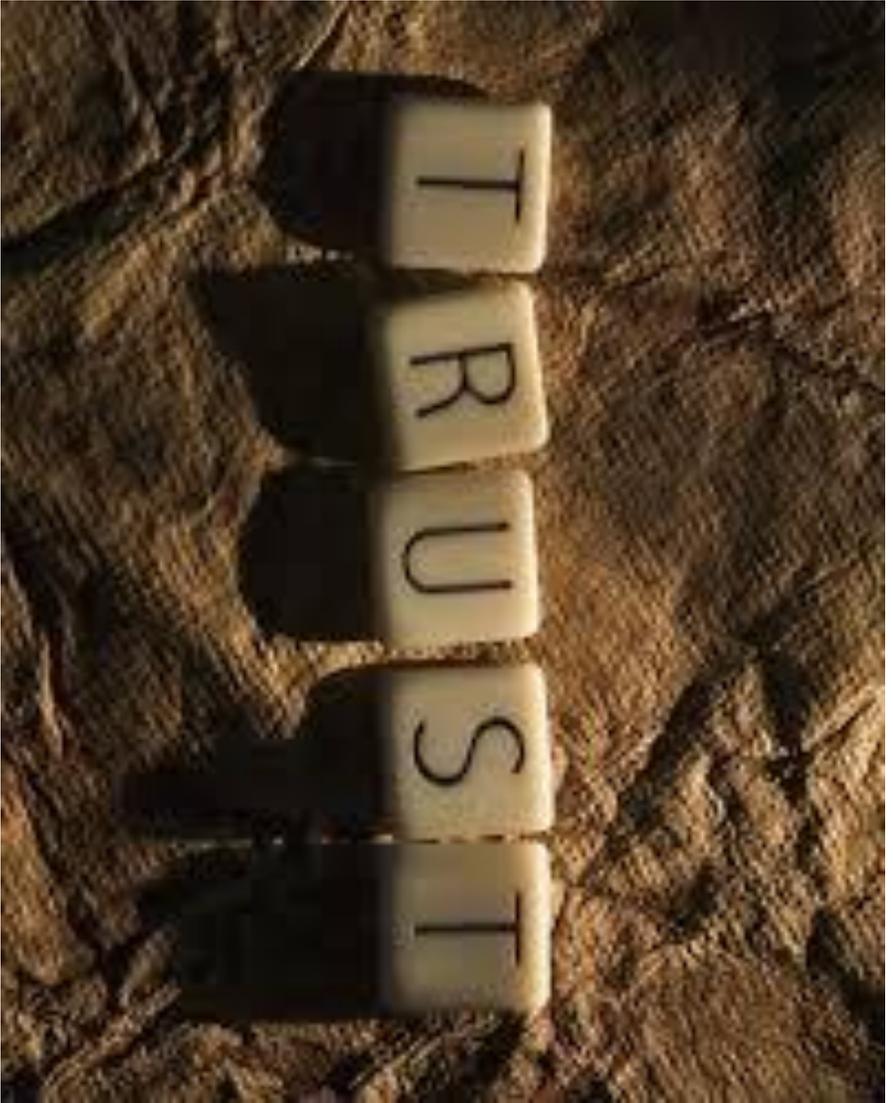
College
Readiness

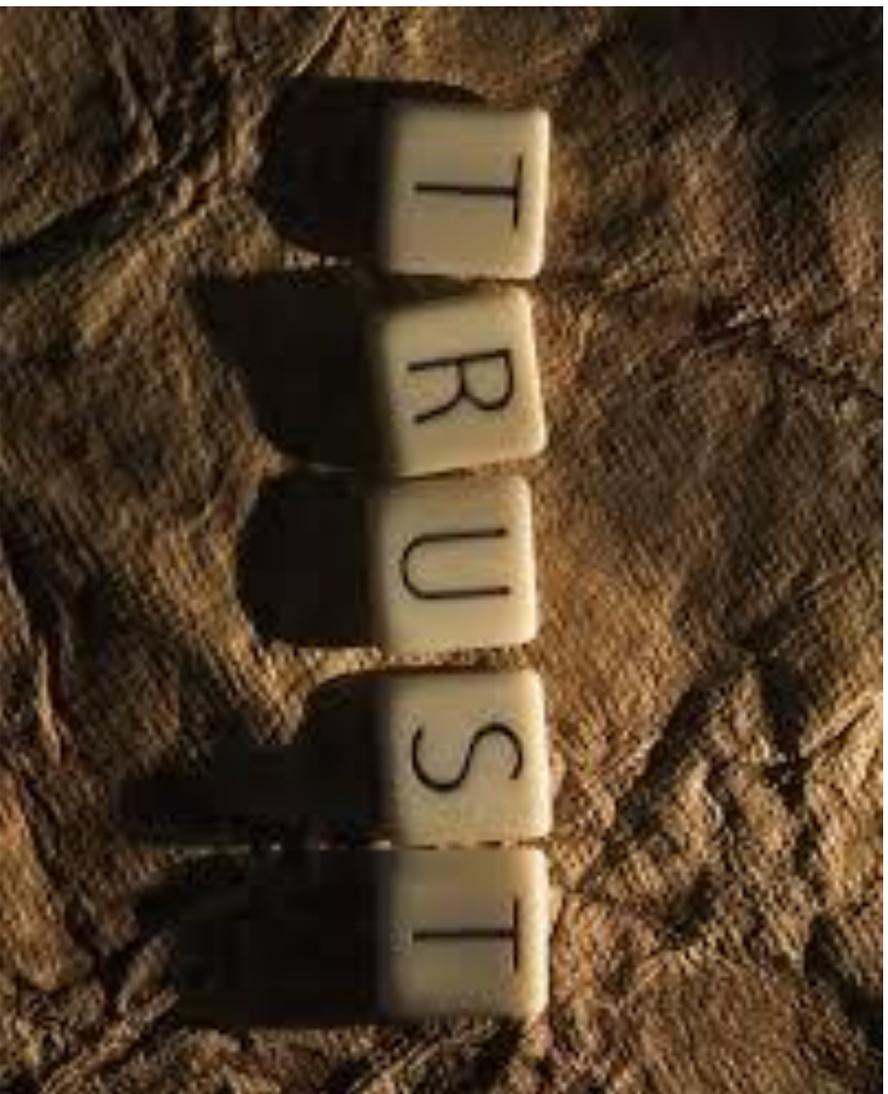
Workforce
Certification



The Maritime Academy of Toledo







**Takes Years to Build
Seconds to Break
Forever to Repair**



BREAK



Water Distribution Workshop
Tuesday, December 6, 2016

Water Distribution Systems Operator Update
OTCO-D1269-OM 0.75 hours

Curtis L. Truss Jr.
OTCO Executive Director



Water Distribution Systems Operator Update

OTCO-D1269-OM 0.75 hours



Water Distribution Systems Operator Update OTCCO-D1269-OM 0.75 hours



Water Distribution Systems Operator Update

OTCO-D1269-OM 0.75 hours



Water Distribution Systems Operator Update

OTCO-D1269-OM 0.75 hours



Water Distribution Systems Operator Update

OTCO-D1269-OM 0.75 hours



Ohio EPA Operations, Resiliency, and Certification Section

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Environmental Supervisor

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Operations, Resiliency, and Certification Section

Andrew Barienbrock	Environmental Manager	
Dave Riley	Environmental Specialist 2	Reclassifications, Technical Assistance, Emergency Response and Sanitary Survey Auditing
Josh Legg	Environmental Specialist 2	Operator of Record notifications, Technical assistance, Sanitary Survey Auditing
Vacant	Environmental Specialist 2	Security, Contingency Planning, Emergency Response Planning, Operator Notifications and Enforcement
<i>Tanushree Courlas</i>	<i>Environmental Supervisor</i>	<i>Operator Certification</i>
Susan Parkins	Environmental Specialist 2	Contact Hours, Advisory Council, eBusiness and application processing
Kevin Jarrel	Environmental Specialist 2	Contact hours, eBusiness, ACHTP Program, and application processing
Deidra Davis	Administrative Assistant	Operator Certification, Exams

For 2016

◆ 554 Applicants for the traditional Ohio EPA

◆ 876 Third party exam provider, ABC, since

1,320 total
2016

40 WDS May

9 WDS November

49 Total (47% pass rate)

2006

121 WDS May

55 WDS November

176 Total (46% pass rate)



May 4, 2016	Total Number Taking Exam	Total Number Passing Exam	% Passing Exam
Distribution I	21	9	43%
Distribution II	19	12	63%
Water A	2	2	100%
Water I	48	26	54%
Water II	35	17	49%
Water III	20	12	60%
Water Totals	145	78	54%

Exam Totals	321	149	46%
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November 10, 2016	Total Number Passing Exam	Total Number Taking Exam	% Passing Exam
Distribution I	5	15	33%
Distribution II	4	12	33%
Water A	3	3	100%
Water I	12	32	38%
Water II	5	18	28%
Water III	4	10	40%
Water Totals	33	90	37%

Exam Totals	90	233	39%
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EXAMINEES PER YEAR

2016	1,320	Total
2015	930	Total
2014	1,298	Total
2013	2,075	Total
2012	2,247	Total
2011	2,247	Total
2010	2,343	Total
2009	2,009	Total
2008	1,674	Total
2007	1,608	Total
2006	1,475	Total



Changes in Operator Certification OAC

- ▶ 3745-07-03 (Effective 03/04/2016) – Waiver of daily visit requirement w/ continuous monitoring – Minimum staffing reduction for facilities within 100 feet of each other
- ▶ 3745-83-01 (Effective 03/04/2016) – **Facilities shall be maintained to function as intended – ORCs shall PIN the MOR**



Changes in Operator Certification OAC

- ▶ Division of Surface Water has changed the small systems general permits for facilities that meet certain criteria and are designed to handle <1,500 gallons per day
- ▶ 2016 All of the Operator Certification rules are due for review.



Proposed Changes

2016 Proposals for change to the Current Operator Certification Rules.

- Throughout the rules we will be referring to operators as “Professionals” .



Proposed Changes

3745-7-01 (Definitions)

- Changes to the definition of operating experience
 - Moving laboratory, pretreatment and engineering components to experience which only counts for a maximum of 25% of the total **operating experience requirement**
 - Collection and Distribution experience moved to the same provision when an operator is applying for a Wastewater Treatment or Water Supply Certificate.



Proposed Changes

25% of the total operating experience requirement

EXAMPLE:

I have 10 years experience in water distribution.

I want to obtain a Class I Water Supply Certification.

-Currently ALL your experience counts toward
Water Supply Certification (requires 2,080 hours)

-Effective 1/1/2018, Water Distribution experience only shall
receive 520 hours (3 months)
Must obtain 1,560 in a Water Plant



Proposed Changes

3745-7-01 (Definitions)

- Adding the definition of a “Week”
- 7 day period beginning on Sunday and ending on Saturday

3745-7-02 (Certified Professional operators required) -

- Contract must clearly define the responsibilities of the owner and the Professional operator
- Contracted Professional operator shall perform their duties in accordance with the contract operator rule



Proposed Changes

3745-7-03 (Public water system classification and staffing requirements)

- Remove provision allowing 12 months after a change in classification by the Director to obtain an appropriately certified operator
- Class 1 Distribution staffing requirements visit a portion of the system 3 days per week (1.5 hours minimum)
- Class 2 Distribution staffing requirements visit a portion of the system 5 days per week (20 hours minimum)
- Clarification of backup operator provisions for Class A and 1 facilities
- Addition of a provision holding backup operators responsible for violations that occur while they are staffing a plant



Proposed Changes

Example:

If you are currently the ORC for a Class II Water Supply and a Class II Water Distribution, beginning January 1, 2018:

20 hours Water Supply (Treatment Plant)

20 hours Water Distribution Systems

40 hours total

Must use separate log books:

(1) for Distribution

(1) for Water Supply



Legal Definition of ‘Visit’

3745-07-01 Definitions

(V) (2)

"Visit" means a period of time when a person is on-site at a public water system, treatment works, or sewerage system that is sufficient to perform routine sampling (e.g. flow, chlorine residual, and pH measurements), maintenance, and observation of a public water system, sewerage systems, or treatment works in order to ensure compliance and proper operation.



Chapter 3745-7 Water Supply Works and Wastewater Works Personnel

3745-7-01 Definitions.

(P) **"Operating experience"** means time performing the day-to-day activities necessary to ensure the proper performance of the equipment or processes of a public water system, treatment works, or sewerage system. Experience for the water supply or water distribution examination may only be obtained at a public water system as defined in this rule.

(1) Types of experience related to a public water system, a treatment works, a water distribution system, or a sewerage system that qualify as operating experience include:

(a) Experience while in the military with providing potable water or wastewater treatment;



Chapter 3745-7 Water Supply Works and Wastewater Works Personnel

3745-7-01 Definitions.

- (c) Sludge handling and hauling if not part of a treatment works;
- (d) Academic research;
- (e) Meter reading only;
- (f) Experience as a laborer, if only responsible for mowing grass, painting tanks, etc.;
- (g) Investigations and inspections of operations that do not require coordination of work with active treatment processes, collection, or distribution systems;
- (h) Construction inspections and engineering design that do not require coordination of work with active treatment processes, collection, or distribution systems;
- (i) Off-site monitoring of SCADA; and
- (j) Septage hauling.



Proposed Changes

3745-7-05 (Classification of Professional operator certification)

- Moved limited Class A description here
- Adding a chart showing superseding certificates

3745-7-06 (Certification of Professional operators)

- Add a deadline for submittal of the Class IV exam



Proposed Changes

3745-7-07 (Professional operator in training)

- Clarify that OITs are not certified and cannot act as a Professional operator of record

3745-7-09 (Recordkeeping requirements and

responsibilities of a certified Professional operator)

- Operation and maintenance records must be maintained in hard bound books with consecutive page numbering or computer logs which automatically document the date, time and person making entry



Proposed Changes

3745-7-09 (Recordkeeping requirements and

responsibilities of a certified Professional operator)

- Each Professional operator shall ensure the record keeping requirements are being met
- Each Professional operator of record shall ensure the minimum staffing requirements are met
- Each Professional operator shall display a copy of their certificate at the plant or office of the owner.
(Moved from 3745-7-05)



Proposed Changes

3745-7-09 (Recordkeeping requirements and responsibilities of a certified Professional operator)

- Report minimum staffing times to the agency on a form approved by the Director



Proposed Changes

3745-7-13 (Reciprocity)

- Fee clarification

3745-7-15 (Expiration and renewal of Professional operator certification)

- Requirement for electronic submission of renewal applications beginning with certificates that **expire December 31, 2018**

- Moving official due date for renewals to November 30 of the expiration year.

- Switching grace period from 1 year to 6 months.



Proposed Changes

3745-7-15 (Expiration and renewal of Professional

operator certification)

- Within 30 days of the effective date of the rule all training providers will be required to electronically submit attendance documentation
- Clarification that training providers must notify Ohio EPA of each training session
- Allowance for a third party course approval program
- Penalty provisions for not following course approval requirements



Proposed Changes

3745-7-15 (Expiration and renewal of Professional operator certification)

- Add provisions for approving internet, correspondence and webinar courses
- Add a requirement to certify the review of an Ohio EPA produced operator certification course.



Proposed Changes

3745-7-21 (Contract Operator Rule)

- In development.
 - Require registration for all contract operators and contract operation companies
 - Spell out requirements for contract operations companies
 - Provisions for preventing companies or operators from acting as contract operators



Contingency Planning

- Procedures must include response and recovery activities such as sampling plans, treatment options and notification to the public and government agencies.
- Identify sampling points that are accessible 24/7
- Systems with automation shall have plans to manually operate the system. Test plans monthly.
- Plans for auxiliary power. Exercised monthly.



Contingency Planning

- Discussion of alternative sources. Sources must have sufficient quantity and quality to support drinking water needs of the system.
- Method for providing water within 24 hours if system cannot produce or distribute water.
- List and contact info for consecutive systems.
- Annual exercise of responses to one or more circumstance identified in plan. Each circumstance should be exercised 1 /5yrs.



Contingency Planning

- Must follow your contingency plan.
- Immediately notify Ohio EPA contingency plan has been activated.
- Director may require an after action report.
- Supply the Agency emergency contact information at least 1/yr.
- Guarantee a response from a public water system representative within 30 minutes



ASSET MANAGEMENT

Senate Bill 333

(B)(1) A public water system shall demonstrate the technical, managerial, and financial capability of the system to comply with this chapter and rules adopted under it by implementing an asset management program not later than October 1, 2018.

(2) Notwithstanding division (B)(1) of this section, the director may require a public water system to complete an asset management program prior to October 1, 2018.



