



STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'OIHANA OLAKINO
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File: SDWB
Minutes 5-22-24

BOARD OF CERTIFICATION OF PUBLIC WATER SYSTEM OPERATORS
MINUTES OF THE MEETING

DATE: May 22, 2024

TIME: 10:00 a.m.

MEMBERS PRESENT: Jodi Yamami (2nd term expires 6/30/24)
Mark Prescott (2nd term expires 6/30/24)
James Landgraf (1st term expires 6/30/25)

A. Call to Order

- The meeting began at 10:00 a.m.

B. Old Business

- The Board unanimously approved the February 16, 2024 meeting minutes

C. New Business

- DSO Certification Applications

The Board unanimously approved the following applications for certification:

	Name	Grade Requested	Grade Approved
1	Adolpho, Jarrett	1	1
2	Dochin, Travis	1	1
3	Inis, Lino	1	1
4	Lehano-Boyce, Dick	1	1
5	Mancao-Kanekoa, Kayza	1	1
6	Manner, Jaymen	1	1
7	Weber, Daniel	1	1
8	Gago, S'mon	2	2
9	Nunes, Joshua	2	2
10	Bamsey, Duncan	4	4

11	Harshell, Wesley	4	4
12	Oducado, Justin	4	4
13	Parker, Wilder	4	4
14	Friedemann, Garren	2 Reciprocity	2 Reciprocity
15	Clark, Ronald	4 Reciprocity	4 Reciprocity

For detailed information on the DSO applications, please refer to Attachment 1.

- WTPO Certification Applications

The Board unanimously approved the following applications for certification:

	Name	Grade Requested	Grade Approved
1	Kauhane, Dean	1	1
2	Estrella, Frank	2	2
3	Hadama, Kelly	2	2
4	Blackwelder, Donald	4	4
5	Clark, Ronald	1 Reciprocity	1 Regular
6	Friedemann, Garren	2 Reciprocity	2 Reciprocity

For detailed information on the WTPO applications, please refer to Attachment 2.

- CEU Requests

The Board unanimously approved the following CEU requests:

	Course	Date	Sponsor	CEUs Approved
1	Protecting Drinking Water Sources with EPA's River Spill Model	2/14/24	US EPA	0.1
2	2024 Pacific Water Conference Top Ops	2/21/24	AWWA Hi/HWEA	0.1
3	From Space to Earth: Revolutionizing Leak Detection with Satellite Technology for Water Management Efficiency	3/19/24	AWWA	0.1
4	Harmful Algal Blooms	3/26/24	US EPA	0.1

5	Insights to Prepare for and Succeed in Monitoring PFAS	4/25/24	AWWA	0.1
6	How Greenville Runs Digital Water System Scenarios to Improve Network Performance	4/25/24	NRWA	0.1
7	PFAS Drinking Water Regulation and treatment Methods	4/30/24	US EPA	0.1
8	Cybersecurity and Per- and Poly fluoroalkyl Substance Regulations	5/1/24	AWWA	0.15
9	Harnessing Technology: Planning Ahead for Lead and Copper Program Management	5/2/24	NRWA	0.1
10	Laboratory QC Improvements: More Efficient Media and Method Checks	5/7/24	AWWA	0.1
11	WaterISAC Introduction LCRR	5/9/24	NRWA	0.1
12	EPA Cybersecurity for the Water Sector	5/21/24	US EPA	0.1
13	Technical Assistance for Lead	5/21/24	US EPA	0.1
14	How Technology can be Implemented Wisely and Affordably in Rural Communities	5/22/24	HRWA/ Waterly	0.15
15	Rural Water Cyber Update: Threats, Vulnerabilities, Regulations & Funding, and Cost-Efficient Cyber-resiliency	5/23/24	NRWA	0.1
16	Water Cybersecurity Assessment Tool (WCAT)	5/29/24	US EPA	0.25
17	Performance Matters: How to Maximize Funding by Optimizing Coatings Service Life	5/30/24	NRWA	0.1
18	Cyber Refresher	6/19/24	US EPA	0.1
19	Cybersecurity Awareness	6/26/24	US EPA	0.2

	Training for Tribal Drinking Water and Wastewater Utilities			
20	Going Digital Doesn't Have to Be so Hard	6/26/24	HRWA/ Waterly	0.15
21	The Down and Dirty of How to Avoid Getting Hacked (for Operators)	7/17/24	HRWA/ Waterly	0.15
22	How to Not Get Hacked	8/27/24	HRWA/ Waterly	0.15
23	Cybersecurity 102	9/4/24	US EPA	0.15
24	Maintenance and Repair Coatings for Key Water/Wastewater Infrastructure Assets	11/14/24	NRWA	0.1
25	Basic Functions, Purpose, O&M of PLC/SCADA	Various	HRWA	0.2
26	Forklift Safety & Certification for Experienced Operators	Various	Altres	0.1
27	Trenching Competent Person	Various	Statewide Safety Systems	0.35
28	Confined Space Competent Person	Various	HEMIC	0.3
29	Plumber Continued Competency Program 2021 Code	Various	Kauai Community College	0.4
30	California's New Cross-Connection Control Handbook	Various	RCAC	0.4
31	Cybersecurity 101	Various	US EPA	0.05
32	Distribution System Exam Preparation Grade 2	Various	American Water College	2.9
33	Distribution System Exam Preparation Grade 4	Various	American Water College	3.2
34	Distribution System Review (4 hours)	Various	American Water College	0.4
35	Distribution System Review (16 hours)	Various	American Water College	1.6
36	Water Treatment Review (8	Various	American	0.8

	hours)		Water College	
37	Water Treatment Exam Preparation Grade 1	Various	American Water College	2.4
38	Water Treatment Exam Preparation Grade 2	Various	American Water College	3.2
39	Water Treatment Exam Preparation Grade 3	Various	American Water College	3.4
40	Water Treatment Exam Preparation Grade 4	Various	American Water College	3.5
41	Water Distribution Systems - Valves, Mains & Meters	Various	Kirkwood Education	1.0
42	Intermediate First Aid - Level C CPR and AED	Various	St. John Ambulance	1.6

For detailed information on the CEU requests, please refer to Attachment 3.

- DSO Certification Exam Results

The Board was notified of the following results of the DSO certification exam administered from the last board meeting to date. Twelve out of 35 operators passed for an overall passing rate of 34%.

	Examinee	Grade	Certification
1	Augustiro, Franklin	1	None
2	Blankenfeld-Kaheiki, George	1	None
3	Fukamizu, Alan	1	D1-554
4	Gomes, Paul	1	D1-552
5	Greenleaf, Ricky	1	None
6	Kaheiki, George	1	None
7	Kaiwi, Lester	1	None
8	Kealoha-Hall, Christopher	1	None
9	Letuli, Joseph	1	None
10	McDonald, Darrell	1	None
11	Mendez, Jerome	1	D1-555
12	Nishihira, Kasey	1	None
13	Poepoe, Myron	1	None

14	Reynolds, Teva	1	D1-556
15	Sanchez, Brian	1	D1-557
16	Silva, Andrew	1	None
17	Smith, Earl	1	None
18	Stacy, Robert	1	D1-553
19	Tranilla, Riccardo	1	None
20	Bitancor, Romel	2	None
21	Kauhane, Dean	2	D2-330
22	Keanini, Noah	2	D2-331
23	Pa-Kala, Namakana	2	None
24	Ramos, Briceson	2	None
25	Tabangcura, Wilfred	2	None
26	Ancheta, Garrett	3	D3-168
27	Bush, Cody	3	None
28	Oducado, Justin	3	None
29	Ramos, Norberto	3	D3-170
30	Wong, Brandon	3	D3-169
31	Carbonell, Elijah	4	None
32	Gibson, Steven	4	D4-304
33	Inouye, Alvin	4	None
34	Waikiki, Neilson	4	None
35	Warren, Joshua	4	None

DSO Exam Results			
Grade	Passed	Examinees	Passing Rate
DSO 1	6	19	32%
DSO 2	2	6	33%
DSO 3	3	5	60%
DSO 4	1	5	20%
Total	12	35	34%

- WTPO Certification Exam Results

The Board was notified of the following results of the WTPO certification exam administered from the last board meeting to date. Four out of 10 operators passed for an overall passing rate of 40%.

	Examinee	Grade	Certification
1	Arengo, Jarreth	1	T-267
2	Bueno, Wayne	1	None
3	Gaspar, Matthew	1	None
4	Ignacio, Wesley	1	T1-268
5	Ihara-Takase, Colby	1	T1-269
6	Lungay, Micah	1	None
7	Viernes, Roque	1	None
8	Ynigues, Morgan	2	T2-250
9	Martin, Francis	4	None
10	Paman, Daniel	4	None

WTPO Exam Results			
Grade	Passed	Examinees	Passing Rate
WTPO 1	3	7	43%
WTPO 2	1	1	100%
WTPO 3	-	-	-
WTPO 4	0	2	0%
Total	4	10	40%

D. Announcements

- Mark Prescott's term ends 6/30/2024. This was his final meeting. Thank you, Mark, for your 8 years of service!
- Zhaohui Wang, William Whaley, and Ian Ichimura were nominated by the Governor and confirmed by the Senate as new board members. Each will start serving their first term on 7/1/2024.
- The next board meeting will be scheduled on August 28, 2024.

E. Adjournment

- The meeting was adjourned at 11:00 a.m.

Respectfully Submitted,



Jodi Yamami
Board of Certification of
Public Water System Operators

JY:sw

- c: Anna Yen, U.S. EPA Region IX [via yen.anna@epa.gov only]
Stephanie Hung, U.S. EPA Region IX [via hung.stephanie@epa.gov only]
James Landgraf, Board Member [via jlandgraf@hawaiiintel.net only]
Mark Prescott, Board Member [via mprescott90@gmail.com only]

ATTACHMENT 1
DSO DECISIONS
5-22-2024

- | | | |
|---|---|-------------------------------|
| <p>1 Adolpho, Jarrett Grade 1
314 St. Stephens Diocesan Center
Supervisor Wilder Parker
Plant Operator
1 yr/10 mos</p> | <p>Check residual, check chlorination process for proper dosing, check run time meter, maintain pump station service feed pump, and check disinfection line, take bacti samples</p> | <p>Approve Grade 1</p> |
| <p>2 Dochin, Travis D. Grade 1
165 Kona Water Service
Supervisor David Kadowaki
Utility Worker
1 yr/8 mos</p> | <p>Test for chlorine in water, change out water meters, replace ARVs, replace copper lines for Cla-valve system, operate breaker tanks float control system</p> | <p>Approve Grade 1</p> |
| <p>3 Inis, Lino R. Grade 1
360 Joint Base Pearl Harbor
Hickam
Supervisor Alfred Paulino
Industrial Equipment Mechanic
1 yr/3 mos</p> | <p>Assist and train with certified colleagues in water distribution systems, daily routine consists of checking pumps, wells, tanks, mixing chlorine, checking fluoride, performing preventative maintenance on wells and tanks, train on SCADA</p> | <p>Approve Grade 1</p> |
| <p>4 Lehano-Boyce, Dick H. Grade 1
314 St. Stephens Diocesan Center
Supervisor Wilder Parker
Plant Operator
4 yrs</p> | <p>Check and maintain residuals, check water meters, check hypochlorite, LMI pumps, Cl2 lines, discharge point, check run time meter, test at sample points, take bacti samples</p> | <p>Approve Grade 1</p> |
| <p>5 Mancao-Kanekoa A.F. Grade 1
135 Waikoloa
Supervisor Gary Shiroyama
Utility Worker
1yr/5 mos</p> | <p>Daily well checks and maintenance, check chlorine residuals, change meters, customer service, flushing of hydrants and repair</p> | <p>Approve Grade 1</p> |
| <p>6 Manner, Jaymen K. Grade 1
345 Schofield Barracks
Supervisor Dan Ewen
Plumbing Work Leader
1 yr/11 mos</p> | <p>Emergency repairs to water main systems and service lines, line taps for new service connections, install, maintain, and repair service valves/ARV/PRV/Fire hydrants, install, test and maintain backflow prevention and cross connection devices, inspect, test and maintain water-based fire protection systems, perform flow testing of water mains/fire hydrants, trouble shoot and repair discrepancies</p> | <p>Approve Grade 1</p> |
| <p>7 Weber, Daniel J.N. Grade 1
163 Kaupulehu
Supervisor Rory Belanio
Operator
1 yr/9 mos</p> | <p>Meter installs/reads, fixing leaks, preventative maintenance, corrosion control, Cla-valves and pumps, reads and rounds for well stations and water sampling</p> <ul style="list-style-type: none">• WTPO 1 certified | <p>Approve Grade 1</p> |

ATTACHMENT 1
DSO DECISIONS
5-22-2024

- | | | |
|---|--|-------------------------------|
| <p>8 Gago, S'mon P. Grade 2
156 Hawaiian Shores
Supervisor Tim Manning
Office Manager
6 yrs/4 mos</p> | <p>Install and replace water meters and transceivers, read meters, process water billing and water payments, collect water samples and data record, routinely flush and clean water mains and fire hydrants, replace rife hydrants and valves, monitor and inspect yard and collect residual readings</p> <ul style="list-style-type: none">• DSO Grade 1 certified | <p>Approve Grade 2</p> |
| <p>9 Nunes, Joshua J. Grade 2
135 Waikoloa
Supervisor Gary Shiroyama
Utility Worker
2 yrs</p> | <p>Service and repair water lines, install and read meters, flush and repair hydrants, take chlorine readings, adjust flows, repair chlorine valves, exchange chlorine tanks, troubleshoot, locate leaks on water line, repair Cla-valves, install curb stops</p> <ul style="list-style-type: none">• DSO Grade 1 certified | <p>Approve Grade 2</p> |
| <p>10 Bamsey, Duncan W. Grade 4
135 Hawaii Water Service
Supervisor Gary Shiroyama
Operator
1 yr/8 mos</p> | <p>Make rounds and log, maintain supply inventories, equipment maintenance for wells sites, storage tanks, chlorine injection sites, chlorine analyzers, valving and piping, sample water, adjust chlorine injection, exercise and maintain fire hydrants, valves, ARVs, blow off valves, curb stops and meters, monitor well performance, tank levels, disinfection and water usage via SCADA, respond to customer calls, read meters and replace meters</p> | <p>Approve Grade 4</p> |
| <p>165 Kona Water Service
Supervisor David Kadowaki
Operator
3 yrs/10 mos</p> | <p>Make daily reads rounds and checks (tank levels line pressure, GPM calculations, amps, volts, run hours) at wells, storage tanks, booster station, chlorine product pump, SHMP pump and transfer tanks, exercise system valves, backup generator testing, safety shower and eye wash station testing, water quality testing, maintain fire hydrants, install new meters, replaced failed meters, perform leak testing, read meters</p> <ul style="list-style-type: none">• DSO Grade 3 and WTPO Grade 2 certified | |
| <p>11 Harshell, Wesley T. Grade 4
165 Kona Water Service
Supervisor David Kadowaki
Operator
8 yrs</p> | <p>Operate and maintain distribution system that services 250+ connections, collect lead and copper samples when required, repair and replace meters as needed, maintain and replace ARVs, assist and facilitate contractors for major pipe repairs and/or replacements, perform maintenance and ensure proper functionality of fire hydrants, without interrupting service or causing severe pressure drops within system</p> <ul style="list-style-type: none">• DSO Grade 3 and WTPO Grade 2 certified | <p>Approve Grade 4</p> |
| <p>12 Oducado, Justin Grade 4
355 Barber's Point
Supervisor Roy Shull
Technician
6 yrs/4 mos</p> | <p>Inspect pumps, take chlorine residuals, adjust chlorine pump in accordance to standard practices, repair leaks and mechanical issues, take water samples at required sample points and deliver to DOH, maintain well site with proper cleaning and maintenance, inspect storage tanks, install new connections and live taps</p> <ul style="list-style-type: none">• DSO Grade 2 and WTPO Grade 1 certified | <p>Approve Grade 4</p> |

ATTACHMENT 1
DSO DECISIONS
5-22-2024

- 13 **Parker, Wilder A. Grade 4** **Approve Grade 4**
314 St Stephens Diocesan Center Work on chlorination equipment, metering pumps, motors, injector quills, gauges, flow meters, ordering and handling of chlorine and taking chlorine residuals, maintenance and repairs including valves, pumps, pipeline, wells, and tanks, sampling including lead and copper, coliform, nitrate, metals, Phase II/V samples, tank and equipment inspections, manage operators, work with clients
Supervisor James Ano
Operations Supervisor
4 yrs
- DSO Grade 2 and WTPO Grade 1 certified
- 14 **Friedemann, Garren R. Grade 2 Reciprocity** **Approve Grade 2 Reciprocity**
Arlington City Water Check-in and consultation of municipal water system including maintenance of gas chlorination system and components, periodic sample collection and line flushing and valve/hydrant maintenance
Supervisor Eric Wick
Contract Operator
2 yrs/2 mos
- Mapleton Water District Operation and maintenance of MIOX chlorine generation system, sample collection, analysis and reporting
Supervisor Eric Wick
Contract Operator
1 yr
- Oregon Distribution Level 2 D-609860 expires 12/31/2024
 - Oregon Distribution Level 2 is the second highest water treatment level out of 4 levels in Oregon
 - Oregon Distribution Level 2 requires
 - High school diploma
 - 2 years of appropriate experience
 - Passing of an Oregon Distribution Level 2 exam
 - Oregon utilizes ABC exams which are equivalent to Hawaii's exams
- 15 **Clark, Ronald K. Grade 4 Reciprocity** **Approve Grade 4 Reciprocity**
Colorado Springs Utilities Water main replacement, water main repairs, service line installation and repairs, hydrant installation, repair, and replacement, operated equipment such as hydraulic pump systems, water tankers, dump trucks, backhoes, tampers, and mini excavators
Supervisor Jennifer Sullivan
Pipefitter
7 yrs
- Current Colorado Water Distribution System Operator Class 4 #CWP-D4-00420-0210 expires 2/7/2026
 - Colorado Water Distribution System Operator Class 4 is the highest out of 4 water distribution certifications
 - Colorado Water Distribution System Operator Class 4 requires
 - High school diploma
 - Completion of approved mandatory regulatory training
 - 4 years of qualified experience
 - Passing of a Class 4 distribution exam
 - Colorado utilizes ABC exams which are equivalent to Hawaii's exams

ATTACHMENT 2
WTPO DECISIONS
5-22-2024

- | | | |
|---|--|-------------------------------|
| <p>1 Kauhane, Dean Grade 1
256 Maui Highlands
RO
Water Operator
Supervisor Christian Rosenthal
3 yrs/7 mos</p> | <p>Visual inspection and maintenance of RO water treatment plant and equipment, maintain RO water treatment system according to manufacturer's guidelines and specifications, check calibration of monitoring equipment, chlorine residual testing, record and log RO treatment plant operating parameters, adjust chemical feeder as necessary, fill chemical tank when needed, order and maintain required space parts</p> <ul style="list-style-type: none">• DSO Grade 2 certified | <p>Approve Grade 1</p> |
| <p>2 Estrella III, Frank Grade 2
213 Makawao
Microfiltration, Direct Filtration
WTPO Trainee
Supervisor Marvin Ignacio
2 yrs/1 mos</p> | <p>Assist in the operation of water treatment plant that includes: perform daily number collecting and logging of water quality for daily operations, daily lab readings/grab samples which include turbidity, UV, chlorine, pH, make changes as needed with chemical dosing that include chlorine, ACH, lime, soda ash, work with SCADA, perform CIPs and maintenance wash on filter units as needed, plant maintenance/troubleshooting, changing valves, pinning and or changing out membrane filters, replacing pumps, fixing leaks, transferring chemicals</p> | <p>Approve Grade 2</p> |
| <p>3 Hadama, Kelly C. Grade 2
400 Lihue-Kapaa
Microfiltration
WTP Operator
Supervisor Ann Sokei
2 yrs</p> | <p>Record run times and equipment readings, perform lab duties to assure finished water meets all permit and allowable standards, collect and send out water samples, monitor facility through SCADA system, perform repairs and maintenance to all equipment, inspect and calibrate various equipment, adjust dosing based on water quality measures, monitor chemical usage and maintain daily logs</p> <ul style="list-style-type: none">• DSO Grade 1 and WTPO Grade 1 certified | <p>Approve Grade 2</p> |
| <p>4 Blackwelder, Donald E. Grade 4
214 Lahaina
Direct Filtration, Microfiltration
WTPO Trainee, WTPO 2
Supervisor Jason Koskey
4 yrs/10 mos</p> | <p>Monitor CL2 and chemical additives for adjustments needed because of changing conditions in the raw intake, monitor and record pump run times, water intake and equipment, inspect pumps, generators and compressors for proper operation, repair membranes, replace pumps, and damaged valves, perform and assist with maintenance washes and CIP to maintain integrity of filter systems, perform backwashes on membranes and sand filters, perform labs daily (turbidity, pH, chlorine, temperature and color) Assist in calculating dosages and perform series of jar tests depending on water quality and volume, monitor filter efficiency and perform backwash, filter surveillance to allow proper filtration results, observe and maintain floc motor performance and clean trains, keep records of chemicals, complete daily draw down test of coagulant, perform calibrations on lab and online instruments, maintain usage of on-site generation unit and brine tank</p> <ul style="list-style-type: none">• WTPO Grade 2 certified | <p>Approve Grade 4</p> |

ATTACHMENT 2
WTPO DECISIONS
5-22-2024

- 5 **Clark, Ronald K. Grade 1 Reciprocity** **Deny Grade 1 Reciprocity, Approve Grade 1 Regular**
Colorado Springs Utilities
Chlorination, Conventional
Treatment
Supervisor Jennifer Sullivan
Environmental Technician
2 yr/6 mos
- Built and maintained chlorination stations, installed and maintained water quality panels, calibrated and maintained pH, conductivity, dissolved oxygen and chlorophyll meters, coordinated water main disinfections, completed lab analyses including turbidity, colilert presence-absences, communicated with customers to address water quality concerns, prepared documents for new bacteriological sites
- Current Colorado Water Treatment Operator Class D #CWP-WD-00316-0212 expires 2/16/2027
 - Colorado Water Treatment Operator Class D is the lowest out of 4 water treatment certifications
 - Colorado Water Treatment Operator Class D requires
 - High school diploma
 - Completion of approved mandatory regulatory training
 - 1 month of qualified experience
 - Passing of a Class D water treatment exam
 - Colorado utilizes ABC exams which are equivalent to Hawaii's exams
 - 1 month of Colorado's qualified experience is less than Hawaii's 1 year of qualified experience required so recommend denying reciprocity
 - Chlorination experience qualifies for Grade 1 via examination
- 6 **Friedemann, Garren R. Grade 2 Reciprocity** **Approve Grade 2 Reciprocity**
Arlington City Water
Chlorination
Supervisor Garren Friedemann
Contract Operator
2 yrs/2 mos
- Check-in and consultation of municipal water system including maintenance of gas chlorination system and components, periodic sample collection
- Mapleton Water District
Membrane Filtration
Supervisor Garren Friedemann
Contract Operator
1 yr
- Operation and maintenance of a membrane filtration system including MIOX chlorine generation system, sample collection, analysis and reporting
- Oregon Treatment Level 2 T-204241 expires 12/31/2024
 - Oregon Treatment Level 2 is the second highest water treatment level out of 4 levels in Oregon
 - Oregon Treatment Level 2 requires
 - High school diploma
 - 2 years of appropriate experience
 - Passing of an Oregon Treatment Level 2 exam
 - Oregon utilizes ABC exams which are equivalent to Hawaii's exams

ATTACHMENT 3
CEU DECISIONS
5-22-2024

Hawaii Courses

1 **Protecting Drinking Water Sources with EPA's River Spill Model**

2/14/24

US EPA

1.0 Contact Hour

0.1 CEUs

This webinar will provide an overview of a Spill Model that helps utilities decide if they should close intake, add additional treatment or access alternative water supplies if a spill occurs in a waterway.

2 **2024 Pacific Water Conference Top Ops**

2/21/24

AWWA Hi/HWEA

1.0 Contact Hour

0.1 CEUs

The Top Ops competition is a contest which recognizes and promotes excellence and professionalism in all aspects of water system operations. Teams of one, two, or three members compete against each other in a fast-paced question and answer tournament. Team members will be tested about their knowledge in the following areas:

- Basic sciences
 - Public health and sanitary practices
 - Plant and pump operation and maintenance
 - Plant and laboratory safety
 - Process control
 - Laboratory operations
 - Monitoring requirements
 - Water distribution
 - Water hydrology
 - Intermediate level mathematics
- Contestants only receive CEU credit

3 **From Space to Earth: Revolutionizing Leak Detection with Satellite Technology for Water Management Efficiency**

3/19/24

AWWA

1.0 Contact Hour

0.1 CEUs

Topics include:

- Methodological dilemmas
- Reducing non-revenue water
- Cost-effectiveness and efficiency
- Customer experience enhancement
- Knowledge gaps

4 **Harmful Algal Blooms**

3/26/24

US EPA

1.0 Contact Hour

0.1 CEUs

Topics include:

- Establishing an Algal Toxin Rule and Regulatory Program in Rhode Island
- Insights on HAB Dynamics in Urban Lakes

ATTACHMENT 3
CEU DECISIONS
5-22-2024

- 5 **Insights to Prepare for and Succeed in Monitoring PFAS**
4/25/24
AWWA
1.0 Contact Hour
0.1 CEUs
- Topics include:
- Learn about PFAS monitoring results in UCMR5 and their link to their anticipated maximum contaminant level
 - Apply lessons learned from other utilities routinely monitoring PFAS in-house
 - Update your understanding of the essential requirements for successfully analyzing PFAS
- 6 **How Greenville Runs Digital Water System Scenarios to Improve Network Performance**
4/25/24
NRWA
1.0 Contact Hour
0.1 CEUs
- This webinar will show how Greenville operators are using a digital replica of their water system to test operational impacts before taking action in the field.
- 7 **PFAS Drinking Water Regulation and Treatment Methods**
4/30/24
US EPA
1.0 Contact Hour
0.1 CEUs
- Topics include:
- Overview of EPA's Final PFAS National Primary Drinking Water Regulation
 - Removal of PFAS Compounds from Drinking Water
- 8 **Cybersecurity and Per- and Polyfluoroalkyl Substance Regulations**
5/1/24
AWWA
1.5 Contact Hour
0.15 CEUs
- This webinar will give an overview of two recent developments relevant to drinking water utilities. First and overview of the recently finalized national primary drinking water regulation for six PFAS. Next, an overview of the landscape for water sector cybersecurity issues.
- 9 **Harnessing Technology: Planning Ahead for Lead and Copper Program Management**
5/2/24
NRWA
1.0 Contact Hour
0.1 CEUs
- This webinar delves into the innovative strategies and technological solutions essential for staying ahead of the curve of LCRR's October deadline.
- 10 **Laboratory QC Improvements: More Efficient Media and Method Checks**
5/7/24
AWWA
1.0 Contact Hour
0.1 CEUs
- Topics include:
- Understand the definition, purpose, and importance of positive and negative culture controls in a water testing laboratory
 - Identify various approaches to positive and negative controls that are available to water testing laboratories
 - Benefits and drawbacks associated with each approach to culture controls, and identify opportunities to improve efficiency or save money in the laboratory

ATTACHMENT 3
CEU DECISIONS
5-22-2024

- 11 **WaterISAC Introduction LCRR**
5/9/24
NRWA
1.0 Contact Hour
0.1 CEUs
This webinar will talk about everything needed to know ahead of the LCRR deadline and what to expect going forward from there.
- 12 **EPA Cybersecurity for the Water Sector**
5/21/24
US EPA
1.0 Contact Hour
0.1 CEUs
This presentation includes common cybersecurity threats to water and wastewater systems, incident response roles and responsibilities, cyber hygiene tips and free resources available to help utilities improve cybersecurity resilience.
- 13 **Technical Assistance for Lead**
5/21/24
US EPA
1.0 Contact Hour
0.1 CEUs
Topics include:
 - Lead Service Line Identification, Replacement Planning, Community Engagement, and Funding Technical Assistance Programs
 - Service Line Inventory Technical Assistance for Small Community and Non-Community Water Systems in Wisconsin
- 14 **How Technology can be Implemented Wisely and Affordably in Rural Communities**
5/22/24
HRWA/Waterly
1.5 Contact Hour
0.15 CEUs
This webinar will discuss how rural utilities can learn how implementing technology does not have to be difficult or expensive.
- 15 **Rural Water Cyber Update: Threats, Vulnerabilities, Regulations & Funding, and Cost-Efficient Cyber-resiliency**
5/23/24
NRWA
1.0 Contact Hour
0.1 CEUs
Topics include:
 - How ICS, SCADA, and OT Ransomware and Other Cyber Attack Scenarios Play Out Today
 - What Attackers See
 - How Your PWS Can Defend Itself (while also affordably addressing current and future government compliance)
 - The Importance of Gaining Real Visibility
 - How to Respond to a Possible Attack (including how to report and how to engage resources if attacked)
 - Discussion of the Best Free and Inexpensive Tools, and Available Cybersecurity Funding for PWSs

ATTACHMENT 3
CEU DECISIONS
5-22-2024

- 16 **Water Cybersecurity Assessment Tool (WCAT)**
5/29/24
US EPA
2.5 Contact Hour
0.25 CEUs
- Topics include:
- Demonstrate how to use EPA’s Water Cybersecurity Assessment Tool (WCAT)
 - Go through each question from the WCAT, suggested documentation to review, and potential questions to ask when conducting a cybersecurity assessment
 - Provide information on the cybersecurity resources and technical assistance offered by EPA
- 17 **Performance Matters: How to Maximize Funding by Optimizing Coatings Service Life**
5/30/24
NRWA
1.0 Contact Hour
0.1 CEUs
- This webinar will explain how and why municipalities/utilities should align their procurement practices with their asset management and sustainability goals.
- 18 **Cyber Refresher**
6/19/24
US EPA webinar
1.0 Contact Hour
0.1 CEUs
- Topics include:
- Common cyber threats and attack vectors
 - Basics of network security
 - Importance of strong passwords and authentication
 - Understanding malware
 - Incident response and incident handling procedures
- 19 **Cybersecurity Awareness Training for Tribal Drinking Water and Wastewater Utilities**
6/26/24
US EPA
2.0 Contact Hours
0.2 CEUs
- Topics include:
- Understand cyber threats facing water and wastewater
 - Receive information on free cybersecurity resources available to assist in all phases of the cybersecurity lifecycle, including identify, protect, detect, respond, and recover
- 20 **Going Digital Doesn’t Have to Be so Hard**
6/26/24
HRWA/Waterly
1.5 Contact Hour
0.15 CEUs
- This webinar will discuss how to make small affordable changes utilizing technology that can have a big impact on budget, efficiency, and efficacy.
- 21 **The Down and Dirty of How to Avoid Getting Hacked (for Operators)**
7/17/24
HRWA/Waterly
1.5 Contact Hour
0.15 CEUs
- This webinar will discuss the basics of how to talk to IT, ask the right questions and make the right decisions to help avoid you or your utility being hacked.

ATTACHMENT 3
CEU DECISIONS
5-22-2024

- 22 **How to Not Get Hacked**
8/27/24
HRWA/Waterly
1.5 Contact Hour
0.15 CEUs
This webinar will teach Water/WW operators how to use a password management app in their utility to manage passwords and security. This is not a technical class for IT folks but more of a workshop for operators to up their security game.
- 23 **Cybersecurity 102**
9/4/24
US EPA
1.5 Contact Hour
0.15 CEUs
This webinar will equip participants with knowledge and practical skills that build on the basics of Cybersecurity 101. The training dives into the similarities and differences of IT and OT. By the end of the course, participants will have a deeper understanding of OT cybersecurity principles, enabling them to proactively protect themselves and their organizations from cyber threats.
- 24 **Maintenance and Repair Coatings for Key Water/Wastewater Infrastructure Assets**
11/14/2024
NRWA
1.0 Contact Hour
0.1 CEUs
This webinar will discuss some of these generic types of materials utilized for maintenance and repair operations within water infrastructure and will lay out some of the pros and cons of using each type for different applications, including overcoat applications.

Repeating Courses

- 25 **Basic Functions, Purpose, O&M of PLC/SCADA**
HRWA
2.0 Contact Hours
0.2 CEUs
This course will discuss the history of SCADA, when, why and where it came about, the benefits for the utility, pros and cons, the reason you would install a unit, cost factor, maintenance and training
- 26 **Forklift Safety & Certification for Experienced Operators**
Altres
1.0 Contact Hour
0.1 CEUs
This hands-on course provides training and 3-year certification in the operation of forklifts and similar machinery.
- 27 **Trenching Competent Person**
Statewide Safety Systems
3.5 Contact Hours
0.35 CEUs
Topics included:
 - scope and application of the standard
 - understanding the definition of an excavation and trench
 - Competent and Qualified Person requirements
 - surface encumbrances
 - Class 1-3 barricading systems
 - access and egress
 - exposure to vehicular traffic
 - exposure to falling loads
 - fall protection requirements
 - warning systems for mobile equipment
 - protection from hazards associated with water accumulation
 - requirements for protective systems (sloping, benching, shielding, shoring, engineered design)
 - soil classification

ATTACHMENT 3
CEU DECISIONS
5-22-2024

28 **Confined Space Competent Person**

HEMIC

3.0 Contact Hours

0.3 CEUs

Topics include:

- scope and application of the standard
- understanding the definition of a confined space
- the classifications of confined spaces (non-permit, alternate procedure permit, and permit required)
- entry communication and coordination
- controlling contractor and host employer responsibilities
- procedures for non-permit spaces
- procedures for alternate procedure and permit entry
- training requirements
- duties of authorized entrants, attendants, and entry supervisors
- rescue and emergency services
- employee participation
- air monitoring
- common ventilation issues

29 **Plumber Continued Competency Program 2021 Code**

Kauai Community College

4.0 Contact Hours

0.4 CEUs

Topics include:

- New Appendix N – Impact of Water Temperature on the Potential for Scalding and Legionella Growth
- New provisions for backflow prevention devices, assemblies, and methods
- New provision of temperature limiting devices
- New guard and rail requirements for appliances on roofs and platforms
- New requirements for the discharge of temperature and pressure relief valve piping
- New provision on leak detection devices
- Provisions for potable water pumps
- New standards for drain, waste, and vent pipe and fittings
- New provisions for drain waste and vent cleanouts
- Circuit vent provisions have been updated and expanded
- Updated to fuel gas provisions
- Updated medical gas provisions including reordering of categories for ease of use

ATTACHMENT 3
CEU DECISIONS
5-22-2024

Correspondence/Online Courses

30 **California's New Cross-Connection Control Handbook**

RCAC

4.0 Contact Hours

0.4 CEUs

Topics include:

- How to identify potential and actual cross connections
- Different backflow prevention devices and how to properly use them
- The new State Handbook for Cross Connection Control
- Basics on training and licensing for surveys and testing

- 2-16-24 Board Meeting recorded the course as 2 contact hours/0.2 CEUs
- Correction to update course to 4 contact hours/0.4 CEUs

31 **Cybersecurity 101**

US EPA

0.5 Contact Hour

0.05 CEUs

Topics include:

- Understanding Cybersecurity
- Common Terms
- Establishing a Cyber Program
- Account Security
- Device Security
- Data Security
- Vulnerability Assessment
- Supply Chain and Third Party
- Response and Recovery

32 **Distribution System Exam Preparation Grade 2**

American Water College

29.0 Contact Hours

2.9 CEUs

Name change only - previous name: Distribution Exam Review Grades 1 and 2

36 **Distribution System Exam Preparation Grade 4**

American Water College

32.0 Contact Hours

3.2 CEUs

Name change only - previous name: Distribution Exam Review Grades 3 and 4

34 **Distribution System Review (4 hours)**

American Water College

4.0 Contact Hours

0.4 CEUs

Name change only - previous name: Distribution System Review (4 hours)

35 **Distribution System Review (16 hours)**

American Water College

16.0 Contact Hours

1.6 CEUs

Name change only - previous name: Distribution System Review (16 hours)

ATTACHMENT 3
CEU DECISIONS
5-22-2024

36 **Water Treatment Review (8 hours)**

American Water College Name change only - previous name: Water Treatment Review (8 hours)
8.0 Contact Hours
0.8 CEUs

37 **Water Treatment Exam Preparation Grade 1**

American Water College Name change only - previous name: Water Treatment Exam Review Grade 1
24.0 Contact Hours
2.4 CEUs

38 **Water Treatment Exam Preparation Grade 2**

American Water College Name change only - previous name: Water Treatment Exam Review Grade 2
32.0 Contact Hours
3.2 CEUs

39 **Water Treatment Exam Preparation Grade 3**

American Water College Name change only - previous name: Water Treatment Exam Review Grade 3
34.0 Contact Hours
3.4 CEUs

40 **Water Treatment Exam Preparation Grade 4**

American Water College Name change only - previous name: Water Treatment Exam Review Grade 4
35.0 Contact Hours
3.5 CEUs

41 **Water Distribution Systems - Valves, Mains & Meters**

Kirkwood Education This course will cover the proper maintenance and operation of valves, mains,
10.0 Contact Hours and meters found in water distribution systems.
1.0 CEUs

Mainland Courses

42 **Intermediate First Aid - Level C CPR and AED**

St. John Ambulance Topics include:
16.0 Contact Hours
1.6 CEUs

- CPR for adults, children, and infants
- Using AEDs
- Choking and breathing emergencies
- Mental health first aid
- Opioid overdose awareness
- Bleeding and burn management
- Bone and joint injuries
- Environmental emergencies