



**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 8-28-24

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

**DATE:** August 28, 2024

**TIME:** 10:00 a.m.

**MEMBERS PRESENT:** James Landgraf (1<sup>st</sup> term expires 6/30/25)  
Ian Ichimura (1<sup>st</sup> term expires 6/30/28)  
Zhaohui Wang (1<sup>st</sup> term expires 6/30/28)  
William Whaley (1<sup>st</sup> term expires 6/30/28)

**A. Call to Order**

- The meeting began at 10:00 a.m.
- New Board Members were introduced.
  1. Ian Ichimura
  2. Zhaohui Wang
  3. William Whaley

**B. Old Business**

- The Board unanimously approved the May 22, 2024 meeting minutes.

**C. New Business**

- DSO Certification Applications

The Board unanimously approved the following applications for certification:

	<b>Name</b>	<b>Grade Requested</b>	<b>Grade Approved</b>
1	Castler, Katelyn	1	1
2	Jacquez, Alejandra	1	1
3	Parker, Joshua	1	1

4	Rapanot, Scottie	1	1
5	Hadama, Kelly	2	2
6	Kim, Ethan	2	2
7	Lee, Shane	2	2
8	Neizman, Davis	2	2
9	Hamlin, Matthew	3	3
10	Wagner, Genalyn	3	3
11	Ano, James	4	4
12	Hutchinson, Gary	4	4
13	Truong, William	4	4
14	Arellano, Thomas	2 Reciprocity	2 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:

	<b>Name</b>	<b>Grade Requested</b>	<b>Grade Approved</b>
1	Basilio, Brandon	1	1
2	Fujii, Kayne	1	1
3	Fukamizu, Alan	1	1
4	Garcia, Flynn	1	1
5	Gomes, Paul	1	1
6	Kaina, Anthony	1	1
7	Matsui, Destry	1	1
8	Paulino, Alfred	1	1
9	Reynolds, Teva	1	1
10	Sanchez, Brian	1	1
11	Stacy, Robert	1	1
12	Young, Darcy	1	1
13	Matsu, Lindo	2	2
14	Weber, Daniel	2	2

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

- CEU Requests

The Board unanimously approved the following CEU requests:

	<b>Course</b>	<b>Date</b>	<b>Sponsor</b>	<b>CEUs Approved</b>
1	Communicating About Lead: Real-World Utility Examples	3/27/24	AWWA	0.15
2	LCRR, Now LCRI - What You Need to Know	5/16/24	NRWA	0.1
3	Make it Yourself	5/22/24	Cleanwater1	0.1
4a	Distribution Systems Unregulated Inorganics and Why You Should Monitor Them (Part 1)	5/8/24	AWWA	0.15
4b	Distribution Systems Unregulated Inorganics and Why You Should Monitor Them (Part 2)	5/15/24	AWWA	0.15
5	Regional Water Distribution Models - What, Why and How	5/22/24	AWWA	0.15
6	PFAS Today, Tomorrow, and Forever: MCLs are Here	6/11/24	EFCN	0.15
7	Inorganics Treatment: Arsenic and Nitrate	6/25/24	US EPA	0.1
8	Florida's WATER Tracker	7/11/24	US EPA	0.1
9	Water, Wildfires and Wisdom	7/17/24	AWWA	0.15
10	Digital Twins for Emergency Management	7/24/24	AWWA	0.15
11	Microgrids and DERs for Water and Wastewater Utilities	7/25/24	US EPA	0.1
12	Drinking Water System Resilience	7/30/24	US EPA	0.1
13	DC Public Health and Healthcare Water Emergency Management	7/31/24	US EPA	0.1
14	AWWA Hawaii Section Workshop	8/7/24	AWWA Hi	0.5
15	Cloud Based SCADA	8/8/24	NRWA	0.1

System				
16	Consolidation, Partnerships, and Regionalization	8/28/24	US EPA	0.1
17	Wading Into Water Quality Modeling: Tackling Distribution System Challenges	8/28/24	AWWA	0.15
18	2024 HRWA Conference	11/20-21/24	HRWA	20 sessions for 0.075 each 1 session for 0.3 1 session for 0.35 1 session for 0.4
19	Leak Detection Method and Monitoring	Various	HRWA	0.3
20	DSO Certification Review	Various	RCAC	0.7
21	Do the Math: Operator Certification Math	Various	RCAC	0.8
22	Training on AWWA Free Water Audit Software v6.0	Various	CWRM	0.6
23	Advanced HAZWOPER Awareness (Modules 1-4)	Various	Vector Solutions	0.8
24	Water Treatment Review	Various	American Water College	1.6
25	Hazardous Material Identification and Spill Prevention	Various	Vector Solutions	0.1
26	Pipe, Valve, and Fittings – An Introduction	Various	CEU Plan	0.4
27	Fecal Coliform Bacteria Determination	Various	CEU Plan	0.1
28	ACE2023	6/13-14/23	AWWA	0.25
29	17 <sup>th</sup> Annual National Park Service & Small System Operator Training	10/24-26/23	Montana Rural Water	1.8

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. Exams were administered on Oahu, Maui, Kauai, and the Big Island. Thirteen out of 27 operators passed for an overall passing rate of 48%.

	<b>Examinee</b>	<b>Grade</b>	<b>Certification</b>
1	Adolpho, Jarret	1	None
2	Blankenfeld-Kaheiki	1	D1-558
3	Dochin, Travis	1	None
4	Inis, Lino	1	None
5	Kaheiki, George	1	D1-559
6	Kaiwi, Lester	1	None
7	Kealoha-Hall, Christopher	1	D1-560
8	Lehano-Boyce, Dick	1	None
9	Manner, Jaymen	1	D1-561
10	McDonald, Darrell	1	D1-562
11	Pacheco, Miles	1	None
12	Sagon, Herbert	1	D1-563
13	Smith, Earl	1	None
14	Tranilla, Riccardo	1	None
15	Weber, Daniel	1	D1-564
16	Wong, Wildfred	1	None
17	Bitancor, Romel	2	D2-334
18	Ellamar, Rory	2	None
19	Gago, S'mon	2	D2-335
20	Medeiros, Jason	2	D2-336
21	Nunes, Joshua	2	D2-333
22	Belanio, Rory	4	None
23	Evans, Troy	4	D4-306
24	Flory, Juleen	4	D4-307
25	Inouye, Alvin	4	None
26	Oducado, Justin	4	None
27	Warren, Joshua	4	None

<b>DSO Exam Results</b>			
<b>Grade</b>	<b>Passed</b>	<b>Examinees</b>	<b>Passing Rate</b>
<b>DSO 1</b>	<b>7</b>	<b>16</b>	<b>44%</b>
<b>DSO 2</b>	<b>4</b>	<b>5</b>	<b>80%</b>
<b>DSO 3</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>DSO 4</b>	<b>2</b>	<b>6</b>	<b>33%</b>
<b>Total</b>	<b>13</b>	<b>27</b>	<b>48%</b>

- **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. Exams were administered on Oahu, Maui, Kauai, and the Big Island. Three out of 10 operators passed for an overall passing rate of 30%.

	<b>Examinee</b>	<b>Grade</b>	<b>Certification</b>
1	Gaspar, Matthew	1	T1-270
2	Kauhola, Matthew	1	None
3	Lungay, Micah	1	None
4	Viernes, Roque	1	None
5	Estrella, Frank	2	None
6	Hadama, Kelly	2	T2-252
7	Pang Kee, Adrian	2	None
8	Onellion, Matthew	3	T3-051
9	Martin, Francis	4	None
10	Paman, Daniel	4	None

<b>WTPO Exam Results</b>			
<b>Grade</b>	<b>Passed</b>	<b>Examinees</b>	<b>Passing Rate</b>
<b>WTPO 1</b>	<b>1</b>	<b>4</b>	<b>25%</b>
<b>WTPO 2</b>	<b>1</b>	<b>3</b>	<b>33%</b>
<b>WTPO 3</b>	<b>1</b>	<b>1</b>	<b>100%</b>
<b>WTPO 4</b>	<b>0</b>	<b>2</b>	<b>0%</b>
<b>Total</b>	<b>3</b>	<b>10</b>	<b>30%</b>

D. Announcements

- The next board meeting will be scheduled on November 25, 2024.

E. Adjournment

- The meeting was adjourned at 11:15 a.m.

Respectfully Submitted,



Jodi Yamami  
FOR Board of Certification of  
Public Water System Operators

JY:sw

- c: Anna Yen, U.S. EPA Region IX [via [yen.anna@epa.gov](mailto:yen.anna@epa.gov) only]  
Stephanie Hung, U.S. EPA Region IX [via [hung.stephanie@epa.gov](mailto:hung.stephanie@epa.gov) only]  
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William Whaley, Board Member [via [whaleywilliam@aol.com](mailto:whaleywilliam@aol.com) only]

ATTACHMENT 1  
DSO DECISIONS  
8-28-2024

- |   |   |                               |
|---|---|-------------------------------|
| <p>1 <b>Castler, Katelyn Grade 1</b><br/>212 Wailuku<br/>Supervisor Leonore Amano<br/>Water Microbiologist<br/>1 yr/7 mos</p>             | <p>Perform chemical and biological examination of water to gauge water quality, participate in collection of field samples, responsible for calibration, quality control, and routine maintenance of various laboratory instruments, prepare laboratory reagents, culture media, and stock solutions, chlorine proficiency certified, respond to consumer concerns and water quality questions, review data and create reports</p>  | <p><b>Approve Grade 1</b></p> |
| <p>2 <b>Jacquez, Alejandra Grade 1</b><br/>212 Wailuku<br/>Supervisor Leonore Amano<br/>Water Microbiologist<br/>1 yr/6 mos</p>           | <p>Perform chemical and biological examination of water to gauge water quality, participate in collection of field samples, responsible for calibration, quality control, and routine maintenance of various laboratory instruments, prepare laboratory reagents, culture media, and stock solutions, chlorine proficiency certified, respond to consumer concerns and water quality questions, review data and create reports</p>  | <p><b>Approve Grade 1</b></p> |
| <p>3 <b>Parker, Joshua A. Grade 1</b><br/>237 Lanai City<br/>Supervisor Roy Silva<br/>Superintendent<br/>1 yr</p>                         | <p>Respond to complaints, repair and maintain system, well checks, monitor and adjust chlorine</p>  | <p><b>Approve Grade 1</b></p> |
| <p>4 <b>Rapanot Jr., Scottie D. Grade 1</b><br/>230 Hoolehua<br/>Supervisor Elroy Mollena<br/>General Labor<br/>1 yr/4 mos</p>            | <p>Provide assistance to water system staff in identification of pipe materials on the distribution side and customer side for lead service line inventory, conduct water meter swaps in replacing mechanical meters with ultrasonic meters, assist with repair and replacement of water main breaks</p>  | <p><b>Approve Grade 1</b></p> |
| <p>5 <b>Hadama, Kelly C. Grade 2</b><br/>432 Anahola Farm Lots<br/>Supervisor Ann Sokei<br/>Water Operator<br/>2 yrs</p>                  | <p>Daily and routine checks of well pumps/tank, chlorine residual reading and recording, equipment readings, trending pump run times and flow totals to determine proper equipment operations, checks in the distribution system, hydrant and valve maintenance, flushing, troubleshooting issues, documenting repairs and maintenance, maintaining proper chlorine residual, monitor and adjust pressure, adjust and maintain ClaVal pressure reducing system</p> <ul style="list-style-type: none"><li>• DSO 1 and WTPO 2 certified</li></ul> | <p><b>Approve Grade 2</b></p> |
| <p>6 <b>Kim, Ethan J. Grade 2</b><br/>400 Lihue-Kapaa<br/>Supervisor Chris Nakamura<br/>Pipefitter, Pipefitter Helper<br/>2 yrs/2 mos</p> | <p>Installs and replaces valves, hydrants and other fittings, repairs main breaks and service leaks, taps main lines, assists in excavating and backfilling read water meters</p>   | <p><b>Approve Grade 2</b></p> |



ATTACHMENT 1  
DSO DECISIONS  
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- 7 **Lee, Shane Grade 2** **Approve Grade 2**  
303 Kunia  
Supervisor Alan Gottlieb  
Water Operator  
22 yrs  
DRC for multiple water systems responsible for compliance, maintenance and operations of deep wells, booster pumps, chlorination systems, air stripping towers and GAC filtration  
  - DSO 1 and WTPO 1 certified
- 8 **Neizman, Davis R. Grade 2** **Approve Grade 2**  
205 Kaanapali  
Supervisor John Kadowaki  
Utility Operator  
2 yrs/11 mos  
Perform daily chlorine residual checks at designated sample sites, daily routine checks at the tank/well sites, perform weekly water quality testing, perform routine bacterial sampling and granular activated carbon sampling to monitor for EDB, TCP and DBCP, assist with field orders, do preventative maintenance, hydrant/meter maintenance  
  - DSO 1 and WTPO 1 certified
- 9 **Hamlin, Matthew W. Grade 3** **Approve Grade 3**  
345 Schofield Barracks  
Supervisor Norberto Ramos  
DSO3  
Water Specialist  
7 yrs/2 mos  
Actively involved in executing and managing Army's waterline projects, perform functionality and technical design reviews to ensure quality and compliance, oversee water studies and implement pipeline repairs, oversee and manage the preventive maintenance of the water systems  
  - WTPO 1 certified
- 10 **Wagner, Genalyn M. Grade 3** **Approve Grade 3**  
345 Schofield Barracks  
Supervisor Norberto Ramos  
DSO3  
Water Systems Manager  
1 yr/4 mos  
Actively involved in executing and managing Army's waterline projects, perform functionality and technical design reviews to ensure quality and compliance, oversee and manage the preventive maintenance of the water systems  
  - Qualifying Bachelor of Science in Chemical Engineering from Mapua University with 20 adjusted semester units. 20 units required for qualification.
  - With qualifying Bachelor's degree, candidate requires at least 1 year of experience for Grade 3 exam approval
- 11 **Ano, James K. Grade 4** **Approve Grade 4**  
314 St. Stephen's Diocesan Center  
Supervisor David Paul  
Director of Operations  
8 yrs  
Input, review and analyze data, write reports, develop CIPs, troubleshoot, repair, and perform maintenance as needed, set up and adjust chlorination equipment, assist with water sampling and scheduling as needed, inspect overall operational condition of systems and make recommendations to system owner, assist with training of new operators  
  - DSO 2 and WTPO 1 certified

ATTACHMENT 1  
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- 12 **Hutchinson, Gary L. Grade 4** **Approve Grade 4**  
345 Schofield Barracks  
Supervisor Norberto Ramos  
DSO3  
Civil Engineer  
3 yrs/9 mos  
Oversee water studies and implement system repairs, monitor maintenance and construction of water treatment systems, distribution pipelines and reservoirs, oversee and manage the preventive maintenance of water systems, actively involved in executing and managing Army's waterline projects, perform functionality and technical design reviews to ensure quality and compliance
- Qualifying Bachelor of Science in Environmental Engineering from University of Nevada, Reno with 21.5+ adjusted semester units. 20 units required for qualification.
  - With qualifying Bachelor's degree, candidate requires at least 2 years of experience for Grade 4 exam approval
- 13 **Truong, William A.K. Grade 4** **Approve Grade 4**  
331 Honolulu Windward Pearl Harbor  
Supervisor Sherrilyn Lee  
Water Microbiologist  
4 yrs  
Collect and analyze drinking water samples in compliance to US EPA and SDWB water regulations, conduct various chemical monitoring tests on drinking water in the field and in the laboratory including residual chlorine, turbidity, conductivity, pH, and temperature, conduct various qualitative and quantitative bacterial tests for total coliform, e. coli, and heterotrophic bacteria, results of compliance testing are used to inform the water system of possible changes or defects in regards to water quality, responds and investigates customer complaints and inquiries, inputs and reviews laboratory data for submission, maintains the quality control of laboratory equipment
- 14 **Arellano, Thomas J. Grade 2 Reciprocity** **Approve Grade 2 Reciprocity**  
OMWD  
Supervisor Mark Wilson  
Utility  
2 yrs/3 mo  
Performed work on distribution system main line, customer service line repairs, installation, distribution reservoir maintenance work, appurtenance repairs, installation and road and easement maintenance
- Hawaii WTPO Grade 4 certified
  - California Water Distribution Operator Grade D3 29412 expires 12/1/2024
  - California Water Distribution Operator Grade 3 is the middle level out of 5 levels in California requiring a high school diploma, 2 years of appropriate experience, & passing of California Distribution Grade 3 exam
  - California writes their own exams

ATTACHMENT 2  
WTPO DECISIONS  
8-28-2024

- |   |  |                               |
|---|--|-------------------------------|
| <p>1 <b>Basilio, Brandon Grade 1</b><br/>348 Waiawa<br/>Membrane Filtration<br/>Supervisor Ian Ichimura<br/>Operations Manager<br/>5 yrs/3 mos</p>  | <p>Responsible for monitoring Technicians performing: troubleshooting and repair of water treatment equipment, maintenance of membrane filtration systems, maintain/calibrating chlorine residual analyzers and turbidimeters, taking water samples, backflow assembly testing and doing preventative maintenance, review lab results for possible violations</p> <ul style="list-style-type: none"><li>• DSO 1 certified</li></ul>  | <p><b>Approve Grade 1</b></p> |
| <p>2 <b>Fujii, Kayne T. Grade 1</b><br/>101 South Central Hilo<br/>Chlorination<br/>Supervisor Alvin Inouye<br/>Plant Operator<br/>11 yrs</p>   | <p>Maintain daily logs and repair of purification apparatus, monitor Cl2 levels and rates and adjust as needed under the direct supervision of DSO 3, supervised change outs of 150# Cl2 cylinders</p>   | <p><b>Approve Grade 1</b></p> |
| <p>3 <b>Fukamizu, Alan K. Grade 1</b><br/>114 Punaluu<br/>Chlorination<br/>Operator<br/>Supervisor Kelly Rapoza<br/>2 yrs/6 mos</p>   | <p>Assist licensed water treatment plant operator in the operation of drinking water facility consisting of chemical feed, chlorination dosage, storage residual, multiple points of Cl2 residual monitoring, sample collections, flushing and response to customer complaints/water issues</p> <ul style="list-style-type: none"><li>• DSO 1 certified</li></ul>  | <p><b>Approve Grade 1</b></p> |
| <p>4 <b>Garcia, Flynn M. Grade 1</b><br/>360 Joint Base Pearl Harbor<br/>Hickam<br/>Chlorination<br/>Supervisor Trevor Inouye<br/>Industrial Equipment Mechanic<br/>Leader<br/>4 yrs/5 mo</p> | <p>Operate and maintain main water pumps with sodium hypochlorite and sodium fluoride injection, adjust dosages of chlorine and fluoride as needed</p> <ul style="list-style-type: none"><li>• DSO 4 certified</li></ul>   | <p><b>Approve Grade 1</b></p> |
| <p>5 <b>Gomes, Paul Grade 1</b><br/>256 Maui Highlands<br/>Reverse Osmosis<br/>Supervisor Christian Rosenthal<br/>Water Operator<br/>2 yrs/11 mos</p>   | <p>Duties include visual inspection and maintenance of RO water treatment plant and equipment, maintain RO water treatment system according to Doh and manufacturer guidelines and specifications, check calibration of monitoring equipment, chlorine residual testing daily and logging, record and log RO treatment plant operating parameters, adjust chemical feeder as necessary, filling of chemical tanks when needed, read and log of RO flowmeters, order and maintain required spare parts, log all work in journal located on site</p> <ul style="list-style-type: none"><li>• DSO 1 certified</li></ul> | <p><b>Approve Grade 1</b></p> |

ATTACHMENT 2  
WTPO DECISIONS  
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|---|--|-------------------------------|
| <p>6    <b>Kaina, Anthony P. Grade 1</b><br/>213 Makawao<br/>Direct Filtration<br/>Supervisor Marvin Ignacio<br/>WTPO Trainee<br/>1 yr</p>  | <p>Assist with plant operator duties such as SCADA, lab samples of turbidity, UV, chlorine, pH and temperature, collect and input daily numbers of water quality, sonic testing, pinning, cleaning and changing of membrane filters, troubleshoot plant operations such as pump rebuilds, valve repairs, OSG maintenance and repairs, chemical transfers, SCADA maintenance and cleaning, travel screen cleaning, and air leak repairs</p> | <p><b>Approve Grade 1</b></p> |
| <p>7    <b>Matsui, Destry T. Grade 1</b><br/>110 Kalapana<br/>Chlorination<br/>Supervisor Alvin Inouye<br/>Plant Operator<br/>7 yrs</p>   | <p>Keep daily logs of well sites which have chlorination in place and monitor of Cl2 residuals and rates, replace empty Cl2 150# cylinders as needed under direct supervision of DSO 3</p>   | <p><b>Approve Grade 1</b></p> |
| <p>8    <b>Paulino Jr., Alfred Grade 1</b><br/>360 Joint Base Pearl Harbor<br/>Hickam<br/>Chlorination, Fluoridation<br/>Supervisor Rodney Rego<br/>Industrial Equipment Mechanic<br/>8 yrs</p> | <p>Maintain chlorine &amp; fluoride levels, maintain hygiene of all pump stations producing sodium hypochlorite, maintenance of chlorine and fluoride injection pumps</p>  | <p><b>Approve Grade 1</b></p> |
| <p>360 Joint Base Pearl Harbor<br/>Hickam<br/>Chlorination, Fluoridation<br/>Supervisor Trevor Inouye<br/>Production Supervisor<br/>4 yrs/7 mos</p>   | <p>Operate and maintain water production including adjusting dosages for chlorine and fluoride</p> <ul style="list-style-type: none"><li>• DSO 4 certified</li></ul>   |                               |
| <p>9    <b>Reynolds, Teva L. Grade 1</b><br/>135 Hawaii Water Service<br/>Chlorination<br/>Supervisor Gary Shiroyama<br/>Utility Worker<br/>1 yr/6 mos</p>                                      | <p>Take chlorine readings, repair chlorine valves, exchange chlorine tanks, troubleshoot, locate leaks on chlorine lines, adjust chlorine dosage for storage tanks feeding the distribution system</p> <ul style="list-style-type: none"><li>• DSO 1 certified</li></ul>   | <p><b>Approve Grade 1</b></p> |
| <p>10    <b>Sanchez, Brian K. Grade 1</b><br/>135 Hawaii Water Service<br/>Chlorination<br/>Supervisor Gary Shiroyama<br/>Utility Worker<br/>2 yrs/11 mos</p>                                   | <p>Daily chlorine reads, take residual before and after tanks, adjust dosages, add sodium hypochlorite, troubleshoot chlorinator performance and repair/replace as determined</p> <ul style="list-style-type: none"><li>• DSO 1 certified</li></ul>  | <p><b>Approve Grade 1</b></p> |

ATTACHMENT 2  
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- |   |   |                               |
|---|---|-------------------------------|
| <p>11 <b>Stacy Jr., Robert W. Grade 1</b><br/>222 Haleakala<br/>Slow Sand, Chlorination<br/>Supervisor Owen Waltrip<br/>Maintenance Worker Supervisor<br/>9 yrs</p>                     | <p>Involvement with decisions and process for all repairs on replacing the filtration media in slow sand filters, daily residual checks, chemical dosing to treat the water, make adjustments to the dosing pumps to maintain that the proper amount of chemical was being added</p> <ul style="list-style-type: none"><li>• DSO 1 certified</li></ul>  | <p><b>Approve Grade 1</b></p> |
| <p>12 <b>Young, Darcy C. Grade 1</b><br/>131 South Kona<br/>Chlorination<br/>Supervisor Alvin Inouye<br/>Plant Operator<br/>7 yrs</p>   | <p>Daily station checks and data acquisition of pumpage, change out of Cl2 cylinders, monitoring of daily residual levels in system, maintain chlorination apparatus as needed</p>  | <p><b>Approve Grade 1</b></p> |
| <p>13 <b>Matsu III, Lindo K. Grade 2</b><br/>130 South Kohala<br/>Chlorination, Corrosion Control,<br/>Membrane Filtration<br/>Supervisor Alvin Inouye<br/>Plant Operator<br/>9 yrs</p> | <p>Maintain daily logs and oversee purification apparatus, monitor Cl2 levels and rates and adjust as needed, change out 150# Cl2 cylinders, add chemicals orthophosphate &amp; polymer as needed (3 days/week) at the plant, do labs pH, chlorine, turbidity, color daily, change ammonia cylinders, clean intakes, take flow rates, add orthophosphate and soda ash for corrosion control, backwash and CIP under direction of DRC</p> <ul style="list-style-type: none"><li>• WTPO 1 certified</li></ul> | <p><b>Approve Grade 2</b></p> |
| <p>14 <b>Weber, Daniel J.N. Grade 2</b><br/>163 Kaupulehu<br/>Reverse Osmosis<br/>Supervisor Rory Belanio<br/>Water Treatment Operators<br/>2 yrs</p>                                   | <p>Collect and analyze field samples from RO skids, preventive maintenance on equipment in and outside of RO facility, install new valves and membranes, adjust and monitor flows on SCADA systems, CIP RO skids to backflush membranes, grab samples and perform lab tests on samples</p> <ul style="list-style-type: none"><li>• DSO 1 and WTPO 1 certified</li></ul>   | <p><b>Approve Grade 2</b></p> |

ATTACHMENT 3  
CEU DECISIONS  
8-28-2024

**Hawaii Courses**

- 1 **Communicating About Lead: Real-World Utility Examples**  
3/27/24  
AWWA webinar  
1.5 Contact Hours  
**0.15 CEUs**  
This webinar will feature communications about the risks of lead entering drinking water and lead service line replacement programs. Examples will be shared of communication that's worked for education and engagement.
- 2 **LCRR, Now LCRI - What You Need to Know**  
5/16/24  
NRWA webinar  
1.0 Contact Hour  
**0.1 CEUs**  
This webinar will discuss everything you need to know ahead of the service line inventory deadline and what to expect going forward from there.
- 3 **Make it Yourself**  
5/22/24  
Cleanwater1 webinar  
1.0 Contact Hour  
**0.1 CEUs**  
This webinar will provide a practical understanding of the science and implementation behind on-site sodium hypochlorite generation as a source of chlorine disinfection capacity for water and wastewater plants as well as distributed well systems.
- 4a **Distribution Systems Unregulated Inorganics and Why You Should Monitor Them (Part 1)**  
5/8/24  
AWWA webinar  
1.5 Contact Hours  
**0.15 CEUs**  
This webinar will examine the issues that occur with unregulated inorganics in terms of asset management, risk to public health and customer satisfaction with water quality. Unregulated inorganics in the distribution system may be a cause for customer complaints and an asset management nightmare for utilities.
- 4b **Distribution Systems Unregulated Inorganics and Why You Should Monitor Them (Part 2)**  
5/15/24  
AWWA webinar  
1.5 Contact Hours  
**0.15 CEUs**  
This part will discuss the unintended consequences of pH adjustment and the potential impacts to metals and complexes in a distribution system. And inorganic chloramines and how to monitor and what interferences to be aware of while monitoring will be discussed.
- 5 **Regional Water Distribution Models - What, Why and How**  
5/22/24  
AWWA webinar  
1.5 Contact Hours  
**0.15 CEUs**  
This model will discuss challenges associated with creating regional water distribution models, unique aspects of regional transmission models, and advantages regional models can provide for resiliency, emergency supply, and comprehensive water quality analysis.
- 6 **PFAS Today, Tomorrow, and Forever: MCLs are Here**  
6/11/24  
EFCN webinar  
1.5 Contact Hours  
**0.15 CEUs**  
This webinar will take an in-depth look at the MCLs for each of the six regulated PFAS, monitoring and compliance requirements for PWSs, and Primacy Agency requirements.

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7 **Inorganics Treatment: Arsenic and Nitrate**

6/25/24

US EPA

1.0 Contact Hour

**0.1 CEUs**

Topics include:

- Biological nitrate treatment
- Arsenic refresher
- Arsenic case study in California

8 **Florida's WATER Tracker**

7/11/24

US EPA

1.0 Contact Hour

**0.1 CEUs**

This webinar will describe Florida's Water Assistance Tracking and Emergency Response System (WATER) Tracker. This system is the one source for all water and wastewater facilities to report event-related status and to submit needs and request resources. This system was designed for all hazard types to include both natural hazards and malevolent acts.

9 **Water, Wildfires and Wisdom**

7/17/24

AWWA webinar

1.5 Contact Hours

**0.15 CEUs**

Topics include:

- Risk mitigation strategies
- Collaboration to develop strategies for addressing water challenges post-wildfire
- Educate communities about the risks and promote participation in resilience efforts
- Incentives to invest in resilient infrastructure and sustainable water management practices

10 **Digital Twins for Emergency Management**

7/24/24

AWWA webinar

1.5 Contact Hours

**0.15 CEUs**

Topics include:

- Visualize and monitor infrastructure
- Predict and mitigate risks
- Optimize response planning
- Enhance communication and coordination
- Improve resilience

11 **Microgrids and DERs for Water and Wastewater Utilities**

7/25/24

US EPA webinar

1.0 Contact Hours

**0.1 CEUs**

This webinar covers the basics of microgrids and DERs and case studies for how they have been implemented at utilities. A microgrid is a group of interconnected loads and distributed energy sources (DERs) that acts as a single controllable entity with respect to the power grid. During a grid power outage, water and wastewater utilities could switch to an electric microgrid powered by both on-property and off-property sources (e.g., solar photovoltaics, wind turbines, biogas, battery banks) to sustain critical operations.

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- 12 **Drinking Water System Resilience**  
7/30/24  
US EPA webinar  
1.0 Contact Hours  
**0.1 CEUs**
- Topics include:
- America’s Water Infrastructure Act Section 2013
  - Water laboratory Alliance’s Resources to Improve Contamination Incident Resilience
- 13 **DC Public Health and Healthcare Water Emergency Management**  
7/31/24  
US EPA Webinar  
1.0 Contact Hours  
**0.1 CEUs**
- This webinar will provide insight from healthcare professionals on challenges they have faced during water emergencies and potential impacts to healthcare during these emergencies requiring water utilities to work together to minimize negative impacts.
- 14 **AWWA Hawaii Section Workshop**  
8/7/24  
AWWA Hi  
5.5 Contact Hours  
**0.5 CEUs**
- Topics include:
- AWWA Hawaii Section membership meeting (no CEUs)
  - Small Systems Roundtable
    - Cybersecurity
    - Fire department coordination
    - Chlorination conflicts
  - SDWB Regulatory Update
  - MDWS Hot Topics (Lunch)
    - Lahaina and Upcountry wildfires
    - Upcountry drought
    - County-wide source development
    - Meter priority list
  - Maui DWS presentation and tour
    - History
    - Regulatory and operational challenges
    - Iao WTF upgrade and tour
- 15 **Cloud-Based SCADA Systems**  
8/8/24  
NRWA  
1.0 Contact Hour  
**0.1 CEUs**
- The attributes of a good cloud-based SCADA system will be discussed and analyzed and RealiteQ will be shown. A good system has high security, two-way communications, is flexible and is low cost. It can integrate with any other data management system.
- 16 **Consolidation, Partnerships, and Regionalization**  
8/27/24  
US EPA  
1.0 Contact Hour  
**0.1 CEUs**
- Topics include:
- Mapping the Nations Community Water Systems
  - Linking Drinking Water Data to Consumers
  - Drinking Water Consolidations and Partnerships in California
  - Evolving Solutions to Achieve the Human Right to Water



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- 17 **Wading Into Water Quality Modeling: Tackling Distribution System Challenges**  
8/28/24  
AWWA webinar  
1.5 Contact Hours  
**0.15 CEUs**
- This webinar will discuss critical water quality components in distribution systems and identifying corresponding challenges and potential solutions that utilities may face.

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18 **2024 HRWA Conference**

11/19-21/24

HRWA

**20 sessions at 45 minutes**

**each for 0.075 CEUs each**

**1 session at 3 hours for 0.3**

**CEUs**

**1 session at 3.5 hours for**

**0.35 CEUs**

**1 session at 4 hours for 0.4**

**CEUs**

45-minute drinking water sessions for full credit:

- PFAS Drinking Water Rule – What’s it All About
- Active Acoustic Leak & Pressure Monitoring for Reducing Non-Revenue Water Loss
- Climate Change: The Trio of Tricky Problems
- Distribution System Water Quality Improvements with Implementation of Active Tank Mixing
- GAC 101 – Activated Carbon for Water Treatment
- How to Hack Your Supervisor’s Computer – Preparing for Operation in the Dark
- History of Water Service Pipe
- Filter Mechanics & Maintenance
- Fire Starters: Invasive Species and the Wildfire Threats They Pose to Water Systems
- HRWA Apprenticeship Program
- Building an OT Cybersecurity System
- Backflow Enclosures – When Backflow Enclosures No-Longer Meet ASSE 1060
- Benefits of Tank Mixing Inside Potable Water Storage Tanks
- Preparing for Lead and Copper Rule
- Peristaltic & Diaphragm Chemical Metering Pumps Accessories & Systems
- Understanding electrical Details & Schematic Drawing
- New Jersey’s Largest Water Utility Installs Novel Media Fluorsorb for PFAS Removal
- Ductile vs Grey Cast Iron
- On-Site Sodium Hypochlorite Generation: A Safe and Cost-Effective Solution for Disinfection
- All Things Ductile

3-hour drinking water session for full credit:

- GPS in Hawaii: How to Get Higher Location Accuracy for Your Maps

3.5-hour drinking water session for full credit:

- Emergency Management Workshop

4-hour drinking water session for full credit:

- Strategic Overview of Disaster Management for Water and Wastewater Utilities

**Repeating Courses**

**19 Leak Detection Method and Monitoring**

HRWA

3.0 Contact Hours

**0.3 CEUs**

This course will look at water loss control programs that utility staff can implement in their systems. Water audits and their requirements, interventions, and other evaluations that operators can perform to reduce their water loss will be discussed. Also, how systems can develop a leak detection program and methods of leak detection, including various types of equipment that is utilized will be discussed.

**20 DSO Certification Review**

RCAC

7.0 Contact Hours

**0.7 CEUs**

Topics include:

- Groundwater
- Surface Water
- Water Quality
- Lead & Copper
- Stage 2 Disinfection Byproducts
- Cross Connection and Backflow Prevention
- Distribution Networks
- Meters
- Valves
- Storage
- Hydrants
- Pumps
- Disinfection
- Safety

**21 Do the Math: Operator Certification Math**

RCAC

8.0 Contact Hours

**0.8 CEUs**

Topics include:

- Fractions
- Order of operation
- Conversions
- Percentages
- Area
- Perimeter
- Volume
- Dosage

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- 22 **Training on AWWA Free Water Audit Software v6.0**  
CWRM  
6.0 Contact Hours  
**0.6 CEUs**
- This free training workshop on the AWWA Free Water Audit Software (FWAS) v6.0 is being offered because the Commission on Water Resource Management (CWRM) is requiring affected public water systems to begin using FWAS v6.0 in 2025. This workshop will review the AWWA M36 water loss audit methodology, explore the new features in the AWWA FWAS v6.0, and ensure a smooth transition from v5.0 to v6.0. The invitees are the public water system owners, operators, and contractors who are responsible for completing the annual water loss audits for submission to CWRM.

**Correspondence/Online Courses**

- 23 **Advanced HAZWOPER Awareness (Modules 1-4)**  
Vector Solutions  
8.0 Contact Hours  
**0.8 CEUs**
- Topics include:
- Describe purpose of the Federal Hazardous Waste Operations and Emergency Response
  - List the operations covered
  - List the training requirements
  - List and describe the major emergency responder roles
- 24 **Water Treatment Review**  
American Water College  
16.0 Contact Hours  
**1.6 CEUs**
- Topics include:
- Source Water
  - Coagulation and Flocculation
  - Sedimentation
  - Filtration
  - Disinfection
  - Corrosion Control
  - Fluoridation
  - Iron and Manganese Control
  - Lime Softening
  - Regulations
  - Membrane Technology
- 25 **Hazardous Material Identification and Spill Prevention**  
Vector Solutions  
1.0 Contact Hour  
**0.1 CEUs**
- This course covers what composes a hazardous material and presents the requirements for the general handling, storage, and disposal of hazardous materials. It covers what a Safety Data Sheet (SDS) is and how to recognize the information contained in an SDS. It teaches you to recognize the special response procedures necessary to handle hazardous materials spills and covers personal protective equipment (PPE) and why you'd use it. It also identifies the procedures for cleaning up a hazardous material spill.
- Name change only from Water Industry HAZMAT Spill Prevention & Control – content remains the same

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26 **Pipe, Valve, and Fittings – An Introduction**

CEU Plan

4.0 Contact Hours

**0.4 CEUs**

Topics include:

- Introduction and History of Wooden Pipe
- Steel, Concrete, Cast Iron Pipe
- Clay Pipe with Making & Labeling
- PVC Pipe
- Thermoplastic and Thermoset Pipes with Installation Guides
- Metal Pipe Joining with Gaskets
- Valves – Globe, Gate, Ball
- Plug, Butterfly, Wedge, Check, Foot, Air Release
- Fittings
- Case Study – Dealing with Hypochlorite in PVC Pipes
- Installation and Application Techniques

27 **Fecal Coliform Bacteria Determination**

CEU Plan

1.0 Contact Hour

**0.1 CEUs**

Topics include:

- Bacteriological Procedures
- Membrane Filter Procedure
- Most Probable Number Procedure and QC

**Mainland Courses**

28 **ACE2023**

6/13-14/23

AWWA

2.5 Contact Hours

**0.25 CEUs**

Topics include:

- PFAS Best practices in risk communication (TUE38)
- Challenges and advantages of regional water distribution system modeling (WED25A)

29 **17th Annual National Park Service & Small System Operator Training**

10/24-26/23

Montana Rural Water  
Association

24.0 Contact Hours

**1.8 CEUs**

Topics include:

- Rules Review
- Hydrants and Valves
- Meters
- MBR Filtration to Reuse (no credit 1 hour)
- Pumps
- Lift Station Odor Control (no credit 1 hour)
- Cyber Security & ERPs
- Critical Conversations and Aging Infrastructure
- Butterfly Valves, Air Release Valves, and Backflow
- New Technologies for Inserting Valves Under Pressure
- Leak Detection Condition Assessment of Pipes
- MBR Processes and Practices (no credit 1.5 hours)
- Tour Wastewater Treatment Plant (no credit 2.5 hours)
  
- No credit for wastewater topics