



**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 5-21-25

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

DATE: May 21, 2025

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 (1st 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.

B. Old Business

- The Board unanimously approved the February 26, 2025 meeting minutes.

C. New Business

- The Wastewater Board discussion was postponed to a later date when all board members can attend.
- DSO Certification Applications

The Board unanimously approved the following applications for certification:

	<b>Name</b>	<b>Grade Requested</b>	<b>Grade Approved</b>
1	Ano, Skyler	1	1
2	Fauatea, Ryan	1	1
3	Flores, Javin-Ethan	1	1
4	Fung, Kyton	1	1
5	Kuhaulua, Benjamin	1	1

6	Lam, Lloyd	1	1
7	Mier, Maile	1	1
8	Peahi, Javen	1	1
9	Puaa-Freitas, Hanoa	1	1
10	Smoot, Ryan	1	1
11	Wallace, Joshua	1	1
12	Beard, Jeffrey	2	2
13	Bruce, Aaron	2	2
14	Manner, Jaymen	3	3
15	Gerstenberger, Daniel	3 Reciprocity	1 Reciprocity 2 Regular

For detailed information, 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	Ano, Skyler	1	1
2	Humphrey, Kevin	1	1
3	Ito, Merick	1	1
4	Johnston, Kenneth	1	1
5	Moriguchi, Eric	1	1
6	Nishida, Justin	1	1
7	Parker, Joshua	1	1
8	Suarez-Birano, Leslyn	1	1
9	Kaina, Anthony	2	2
10	Wong, Lucan	2	2
11	Copeland, Michael	4	4
12	Kranchick, Ronald	4	4
13	Skarbek, Brady	2 Reciprocity	2 Reciprocity
14	Hansen, Brandon	3 Reciprocity	3 Reciprocity
15	Arentz, Christopher	3 Reciprocity	3 Reciprocity
16	Peterson, David	4 Reciprocity	4 Reciprocity

For detailed information, 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	Introduction to Control Systems Cybersecurity 101	9/4/24	CISA	0.4
2	Cybersecurity Evaluation Tool (CSET) Training	9/4/24	CISA	0.35
3	2025 Pacific Water Conference Top Ops (Contestants Only)	2/5/25	AWWA Hi/HWEA	0.1
4	Emergency Preparedness Modeling for Distribution Systems	3/5/25	AWWA	0.15
5	Chlorine Dioxide for Drinking Water Treatment	3/12/25	AWWA	0.15
6	Managing Contaminated Drinking Water Post-Hurricane	3/12/25	US EPA	0.1
7	New Administration, New Congress, and Complying with Recent Rulemakings	3/19/25	AWWA	0.15
8	Fire Season: Distribution Tank Strategies for Water Quality	3/20/25	Cleanwater1	0.1
9	Disinfection Byproducts: Inorganic Chloramine	3/25/25	US EPA	0.1
10	Rethinking Reserves	3/26/25	AWWA	0.15
11	Investigating Enforcement Mechanisms Beyond Local Ordinances – A Look into AWWA’s New Guidance	4/2/25	AWWA	0.15
12	AWWA’s New Guidebook: Climate Change Impacts in Water Demand Forecasting	4/23/25	AWWA	None
13	Microplastics 2025: The Health Effects Synopsis	4/30/25	AWWA	None
14	Victaulic Training	5/1/25	Victaulic	0.1
15	DOH SDWB Regulatory Update	5/7/25	AWWA Hi	0.5

16	PFAS Removal – Novel Adsorbents and Process	5/8/25	AWWA	0.1
17	OSHA Compliance and Safety Training	5/20/25	County of Kauai, HIOSH	0.525
18	Funding Resources: Lead Service Line Replacement and Emerging Contaminants	5/20/25	US EPA	0.1
19	National Water and Wastewater Sector Cybersecurity Drill	5/27/25	US EPA	0.2
20	Addressing Contamination Incidents in RRAs & ERPs	5/27/25	US EPA	0.1
21	Cybersecurity 103	6/10/25	US EPA	0.15
22	Capital Improvement Planning	Various	RCAC	0.2
23	Water Distribution System Operations & Maintenance	Various	RCAC	0.4
24	Water System Basic Operations	Various	RCAC	0.2
25	Backflow Awareness	Various	Technical Learning College	1.0
26	Chlorination 404	Various	Technical Learning College	3.6
27	Hydraulic Principles	Various	Technical Learning College	0.8
28	Laboratory Safety	Various	Technical Learning College	1.0
29	Asset Management	Various	Watura	0.1
30	District Meter Areas	Various	Watura	0.15
31	Drinking Water Pumping	Various	Watura	0.15
32	Drinking Water Quality Testing and Monitoring	Various	Watura	0.1
33	Inspection and Maintenance of Centrifugal Pumps	Various	Watura	0.15
34	Level Sensors in Drinking Water and Wastewater Systems	Various	Watura	0.2

35	Maintenance of Drinking Water Systems	Various	Watura	0.15
36	Operation of Drinking Water Distribution Systems	Various	Watura	0.15
37	Urban Hydraulics	Various	Watura	0.15
38	Water Chemistry	Various	Watura	0.15
39	Manage for Success 2 <sup>nd</sup> Edition	Various	CSUS	3.5
40	OAWU Annual End of Year Operators Conference	12/10-12/24	Oregon Association Water Utilities	1.275

For detailed information, please refer to Attachment 3.

- DSO Certification Exam Results

The Board was notified of the following results of the DSO certification exam. Twelve out of 31 operators passed for an overall passing rate of 39%.

	<b>Examinee</b>	<b>Grade</b>	<b>Certification</b>
1	Barrozo, Joshua	1	None
2	Brink, Robert	1	D1-576
3	Burdett, Brydon	1	D1-577
4	Dizon, Kamuela	1	None
5	Ichimasa, Eric	1	D1-578
6	Lehano Boyce, Dick	1	None
7	Madamba, Felipe	1	D1-579
8	McHugh, Michael	1	D1-580
9	Mendes, Jesse	1	None
10	Pascua, Wilbert	1	D1-581
11	Rapanot, Scottie	1	None
12	Taiseni, Chester	1	None
13	Tehiva, Lawaia	1	None
14	Van Tatenhove, Ryan	1	D1-582
15	Fu, Ryan	2	None
16	Horner, Darren	2	None
17	Kim, Ethan	2	None
18	Medeiros, Krieg	2	None

19	Neizman, Davis	2	None
20	Ramos, Briceson	2	None
21	Rita, Selwyn	2	None
22	Tolentino, Domie	2	D2-342
23	Weber, Daniel	2	D2-343
24	Ellamar, Rory	3	None
25	Metcalf, Christopher	3	None
26	Smither, Sean	3	D3-173
27	Takara, Samuel	3	D3-174
28	Ancheta, Garrett	4	D4-314
29	Hendershot, Kalei	4	None
30	Inouye, Alvin	4	None
31	Len-Wai, Kamuela	4	None

<b>Grade</b>	<b>Passed</b>	<b>Examinees</b>	<b>Passing Rate</b>
<b>DSO 1</b>	<b>7</b>	<b>14</b>	<b>50%</b>
<b>DSO 2</b>	<b>2</b>	<b>9</b>	<b>22%</b>
<b>DSO 3</b>	<b>2</b>	<b>4</b>	<b>50%</b>
<b>DSO 4</b>	<b>1</b>	<b>4</b>	<b>25%</b>
<b>Total</b>	<b>12</b>	<b>31</b>	<b>39%</b>

- **WTPO Certification Exam Results**

The Board was notified of the following results of the WTPO certification exam. Six out of 16 operators passed for an overall passing rate of 38%.

	<b>Examinee</b>	<b>Grade</b>	<b>Certification</b>
1	Cardoza Vida, Iokepa	1	None
2	Ching, Joshua	1	T1-284
3	Gomes, Paul	1	None
4	Hill, Robert	1	None
5	Inis, Lino	1	None

6	Koivisto, Joshua	1	T1-285
7	Morales Collazo, Edgar	1	T1-286
8	Young, Darcy	1	T1-287
9	Ihara-Takase, Colby	2	T2-257
10	Kauhane, Dean	2	None
11	Kawamura, Justin	2	T2-258
12	Matsu, Lindo	2	None
13	Oducado, Justin	2	None
14	Mukai, Miki	4	None
15	Onellion, Matthew	4	None
16	Paman, Daniel	4	None

<b>Grade</b>	<b>Passed</b>	<b>Examinees</b>	<b>Passing Rate</b>
<b>WTPO 1</b>	<b>4</b>	<b>8</b>	<b>50%</b>
<b>WTPO 2</b>	<b>2</b>	<b>5</b>	<b>40%</b>
<b>WTPO 3</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>WTPO 4</b>	<b>0</b>	<b>3</b>	<b>0%</b>
<b>Total</b>	<b>6</b>	<b>16</b>	<b>38%</b>

D. Announcements

- The next board meeting will be scheduled on August 27, 2025.

E. Adjournment

- The meeting was adjourned at 11:00 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]  
Brian Kawashima, U.S. EPA Region IX [via [kawashima.brian@epa.gov](mailto:kawashima.brian@epa.gov) only]  
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ATTACHMENT 1  
DSO DECISIONS  
5-21-2025

- |  |  |                               |
|--|--|-------------------------------|
| <p>1    <b>Ano, Skyler K.L. Grade 1</b><br/>314 St. Stephens<br/>Supervisor Wilder Parker<br/>Operator<br/>1 yr</p>  | <p>Round/readings, record keeping, maintain hypo/chlorine system for disinfection, assist with repairs, maintain the water system components, collect samples for lab analysis</p>   | <p><b>Approve Grade 1</b></p> |
| <p>2    <b>Fauatea, Ryan T. Grade 1</b><br/>237 Lanai City<br/>Supervisor Roy Silva<br/>Apprentice<br/>1 yr/5 mos</p>  | <p>Read and replace meters as needed, repair, service and main lines as needed, respond to customer complaints, preventive maintenance on tanks, pressure reducing valves, and chlorine sample stations</p>  | <p><b>Approve Grade 1</b></p> |
| <p>3    <b>Flores, Javin-Ethan S. Grade 1</b><br/>360 Joint Base Pearl Harbor<br/>Hickam<br/>Supervisor Joe Nehl<br/>Instrument Mechanic<br/>1 yr</p>        | <p>Respond, identify, secure, excavate, repair, and restore water main breaks, perform preventive maintenance on fire hydrants, hydrant valves, main valves, and ARVs, identify elevations in order to comprehend settings, and set pressure regulating valves</p> | <p><b>Approve Grade 1</b></p> |
| <p>4    <b>Fung, Kyton K.H. Grade 1</b><br/>360 Joint Base Pearl Harbor<br/>Hickam<br/>Supervisor Joe Nehl<br/>Instrument Mechanic<br/>200+ days</p>         | <p>Respond, identify, secure, excavate, repair, and restore water main breaks, perform preventive maintenance on fire hydrants, hydrant valves, main valves, and ARVs, identify elevations in order to comprehend settings, and set pressure regulating valves</p> | <p><b>Approve Grade 1</b></p> |
| <p>5    <b>Kuhaulua V, Benjamin W.O. Grade 1</b><br/>400 Lihue-Kapaa<br/>Supervisor Kyle Napoleon<br/>Assistant Water Plant Operator<br/>10 mos</p>          | <p>Control of liquid sodium hypochlorite systems for disinfection, maintain pumps and control valves, maintain back pressure and control valves, check pump lines, distribution lines, and transmission lines</p>  | <p><b>Approve Grade 1</b></p> |
| <p>Kauai Plumbing Company<br/>Supervisor Erik Rita<br/>Apprentice Plumber<br/>1 yr/5 mos</p>   | <p>Assist in installing main water line, install backflow preventers, test and maintain backflow preventers, install pressure reducing valves, air relief valves and pumps</p>   |                               |
| <p>6    <b>Lam, Lloyd L. Grade 1</b><br/>360 Joint Base Pearl Harbor<br/>Hickam<br/>Supervisor Alfred Paulino<br/>Industrial Equipment Mechanic<br/>1 yr</p> | <p>Assist journeymen in maintaining chlorine and fluoride levels by adding chlorine and fluoride or water to increase or decrease the levels, adjust pump strokes and speed of pumps dependent on the field tests, maintain and upkeep workstations</p>            | <p><b>Approve Grade 1</b></p> |

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DSO DECISIONS  
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|----|--|--|--|
| 7  | <b>Mier, Maile E. Grade 1</b><br>425 Kokee<br>Supervisor Leila Kamakele<br>Assistant Operator<br>4 yrs/6 mos       |  | <b>Approve Grade 1</b><br>Check level of storage tank, meter reading, check chlorine residual, add chlorine as needed, repair leaks as needed, repair peristaltic pump, well depth reading, replace sediment filters   |
| 8  | <b>Peahi, Javen K. Grade 1</b><br>314 St. Stephen's Diocesan<br>Supervisor Wilder Parker<br>Operator<br>1 yr/3 mos |  | <b>Approve Grade 1</b><br>Maintain chlorination system including injector quills, flow meters, metering pumps, motors, gauges, adjusting strokes and speed of LMI pump, handle chlorine and take chlorine residuals, maintain equipment and repair pumps, valves, wells, piping, tanks and electrical controls, bacti sampling   |
| 9  | <b>Puaa-Freitas, Hanoa M. Grade 1</b><br>212 Wailuku<br>Supervisor Ray Hirata<br>Laborer<br>1 yr/2 mos             |  | <b>Approve Grade 1</b><br>Maintain tank, vault, and fire hydrant facilities, inspect inlet/outlet pipes and flappers on tank sites for leaks or debris, assist to assemble pipe connections ranging from ¾' to 18", flush hydrants   |
|    | 212 Wailuku<br>Supervisor Brian Silva<br>Pipefitter Helper<br>9 mos  |  | Assist in maintenance of storage tanks, repair leaks and breaks of water pipes, adjust air and pressure relief valves, flush hydrants, install water meters, and community relations   |
| 10 | <b>Smoot, Ryan M. Grade 1</b><br>162 Waikii Ranch<br>Supervisor Alvin Kotaki<br>Service Technician<br>4 yrs/9 mos  |  | <b>Approve Grade 1</b><br>Pump, valve, PRV, and interconnection repair, maintenance and operation, manage and maintain SCADA that operates the well and pump controls and monitors tank levels and alarms  |
| 11 | <b>Wallace, Joshua L. Grade 1</b><br>212 Wailuku<br>Supervisor Ray Hirata<br>Pipefitter Helper<br>3 yrs/3 mos      |  | <b>Approve Grade 1</b><br>Flush hydrants and standpipes, take water samples, get residuals of free and total chlorine, repairing mainlines, tapping new service laterals to meter, repair leaks, install meters, install new valves, assemble and disassemble hydrants, traffic control  |
| 12 | <b>Beard, Jeffrey A. Grade 2</b><br>Smith River CSD<br>Supervisor Daniel Floyd<br>General Manager<br>4 yrs         |  | <b>Approve Grade 2</b><br>Work with state and federal regulator to complete major system improvement projects, operate and maintain water production system, manage billing/meter reading/customer complaints, install, operated and maintain water distribution system including main and service lines, new piping, valves, and services, locate and repair service line leaks, install, maintain, and repair generators, compressors, pumps, chemical equipment, valves, motors, meters, calibrate and adjust telemetry signals, collect samples for temperature, pH, and chlorine residual, replace chlorine cylinders |

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- 13 **Bruce, Aaron G. Grade 2** **Approve Grade 2**  
Stonetown Capital  
Supervisor Andy Glinski  
Director of Utilities  
4 yrs  
Institute water line flushing program, institute isolation valve exercising program, institute fire hydrant flushing program, repair/replace water line piping for water system read/record water meters, read/record water meter readings at well sites and treatment plant to compare for water loss, oversee field crew collecting samples at water systems
- 14 **Manner, Jaymen K. Grade 3** **Approved Grade 3**  
345 Schofield Barracks  
Supervisor Dan Ewen  
Plumbing Work Leader  
3 yrs  
Emergency repairs to water main systems and service lines, line taps for new service connections, install, maintain and repair valves/ARV/PRV/fire hydrants, install, test, maintain backflow prevention and cross connection devices, perform flow testing of water mains/fire hydrants and troubleshoot discrepancies
- DSO 1 certified
- 15 **Gerstenberger, Daniel J. Grade 3 Reciprocity** **Approve Grade 1 Reciprocity, Grade 2 Regular**  
St Clair Township  
Supervisor  
DPW Lead  
2 yrs/3 mos  
Water operator in charge, bacti samples and lead testing, TTHM and HAA5 testing, inspect water main installation and bacterial sampling on new watermains, flush and repair hydrants, install water services for new construction and/or repairs, water meter replacement, final reads for water bills, emergency water shutoff
- Michigan Waterworks System Operator S-3 #17087 expires 7/15/2026
  - Michigan Waterworks System Operator S-3 is the second lowest distribution category out of 4 levels
  - Michigan Waterworks System Operator S-3 requires
    - high school diploma
    - passing of an S-3 exam
    - 1 year of appropriate experience
  - Michigan writes their own exams
  - Recommend Hawaii DSO 1 reciprocity to match Michigan's 1 year experience requirement
  - Recommend Hawaii DSO 2 regular via examination with 2 years of experience

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- 1    **Ano, Skyler K. Grade 1** **Approve Grade 1**  
314 St. Stephens  
Chlorination  
Supervisor Wilder Parker  
Operator  
1 yr

Rounds/reads, record keeping, maintain hypochlorite system for disinfection, preventative maintenance on hypo system, check residual, adjust chlorinator based on residuals, assist with minor repairs on components
  
- 2    **Humphrey, Kevin L. Grade 1** **Approve Grade 1**  
237 Lanai City  
Chlorination  
Supervisor Roy Silva  
DSO  
7 yrs

Maintain a chlorine residual of 0.50 at all sample points in potable water system, take monthly coliform bacteria samples and ship to DSO laboratory for analysis, adjust chlorinator injection as needed, refill chlorine storage tanks as needed.

  - DSO 3 certified
  
- 3    **Ito, Merick Grade 1** **Approve Grade 1**  
264 Pulehunui Water Association  
RO  
Supervisor Donald Pascual  
Water Operator  
3 yrs/8 mos

Operate Pulehunui treatment plant (RO and chlorination), ensure site and equipment are maintained, checks on wells, add chlorine depending on residuals, RO system (check gauges, read logs and trending data, check membrane filters and clean, check components, repair as needed), tanks, boosters, electrical systems, conduct water sampling

  - DSO 1 certified
  
- 4    **Johnston, Kenneth Grade 1** **Approve Grade 1**  
331 Honolulu-Windward-Pearl Harbor  
Chlorination  
Supervisor Bert Kawamura  
Assistant Water Treatment Worker  
1 yr/4 mos

Water treatment runs by going to the station, taking water samples and testing residual, check dosing pumps and make necessary changes, log information, refill holding tanks with sodium hypochlorite and maintain chlorinators, calculate the solutions to ensure the correct mix goes into the tanks, check for leaks and air bubbles in chlorinator
  
- 5    **Moriguchi, Eric S. Grade 1** **Approve Grade 1**  
425 Kokee  
Chlorination, Corrosion Control  
Supervisor David Tsuchiya  
Operator  
9 yrs

Take chemical tank levels of chlorine, soda ash and C9, add chlorine and c9 as needed, mix soda ash with water, test orthophosphate, pH, and chlorine levels, take chlorine residual, repair peristaltic feed pumps as necessary

  - DSO 1 certified
  
- 6    **Nishida, Justin Grade 1** **Approve Grade 1**  
331 Honolulu-Windward-Pearl Harbor  
Chlorination  
Supervisor Bert Kawamura  
Assistant Water Treatment Worker  
1 yr/4 mos

Testing source water for required residual chlorine levels, measure residual where water enters the systems, adjust chlorination system as necessary, refill holding tanks for chlorination systems, estimate amount of sodium hypochlorite to be used and fill, small repairs to chlorination system, troubleshoot and repair/replace, preventative maintenance on each unit and residual monitor

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- |    |   |   |
|----|---|---|
| 7  | <b>Parker, Joshua A. Grade 1</b><br>237 Lanai City<br>Chlorination<br>Supervisor Roy Silva<br>DSO<br>2 yrs                    | <b>Approve Grade 1</b><br>Maintain a chlorine residual of 0.50 at all sample points in potable water system, take monthly coliform bacteria samples and ship to DSO laboratory for analysis, adjust chlorinator injection as needed, refill chlorine storage tanks as needed. <ul style="list-style-type: none"><li>• DSO 1 certified</li></ul>   |
| 8  | <b>Suarez-Birano, Leslyn Grade 1</b><br>237 Lanai City<br>Chlorination<br>Supervisor Roy Silva<br>DSO<br>9 yrs                | <b>Approve Grade 1</b><br>Maintain a chlorine residual of 0.50 at all sample points in potable water system, take monthly coliform bacteria samples and ship to DSO laboratory for analysis, adjust chlorinator injection as needed, refill chlorine storage tanks as needed. <ul style="list-style-type: none"><li>• DSO 2 certified</li></ul>   |
| 9  | <b>Kaina, Anthony P. Grade 2</b><br>213 Makawao<br>Direct Filtration<br>Supervisor Kelly Wright<br>WTPO Trainee<br>2 yrs      | <b>Approve Grade 2</b><br>Assist plant operators with taking lab samples of turbidity, UV, chlorine, pH, and temperature, SCADA training, sonic testing, membrane filter pinning, cleaning and changing, troubleshoot plant operations: chemical transfers, travel screen cleaning, air leak repairs, SCADA and onsite chlorine generation maintenance and cleaning, pump rebuilds, valve repairs   |
| 10 | <b>Wong, Lucan D.A. Grade 2</b><br>213 Makawao<br>Direct Filtration<br>Supervisor Kelly Wright<br>WTPO Trainee<br>2 yrs/2 mos | <b>Approve Grade 2</b><br>Assist operator in making dosage changes for chlorine, ACH, soda ash, lime, pH adjustment, perform daily number collecting and logging of water quality, perform daily grab samples, train on SCADA system, assist with chemical cleaning on filtration unit, assist with plant maintenance such as fixing and replacing valves, pinning of membrane filter, fixing air leaks, transferring chemicals   |
| 11 | <b>Copeland, Michael J. Grade 4</b><br>214 Lahaina<br>Direct Filtration<br>Supervisor Christopher Retuta<br>WTPO<br>4 yrs     | <b>Approve Grade 4</b><br>Record morning data including raw water input, water processed, water level heights of pre-sedimentation cells, clearwell, MGT, active flow, review trends, ensure chlorine levels are staying within parameters, turbidity levels are below restricted requirement, compressed air consistency, and membrane function, walk thru and inspect plant area such as screen box area, scrub and repair, flush lines, clean strainer, clear debris at Pre-Sed, add salt to OSG, record pump hours and VFDs, coagulant chemical tote height, record analyzer data of NTU, pH, temp, and chlorine, monitor floc deck, verify dosing and lamp efficiency for UV, backwash multimedia filters, replace anthracite, jar tests of coagulant <ul style="list-style-type: none"><li>• WTPO 2 certified</li></ul> |

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- 12 **Kranchick, Ronald M. Grade 4** **Approve Grade 4**  
214 Lahaina  
Direct Filtration  
Supervisor Christopher Retuta  
WTPO  
4 yrs
- Observe and take readings of pumps and sensors, lab testing grab samples from raw water, filtrate and finish water, take readings on turbidity, pH, temperature, chlorine, color, and alkalinity, check chlorine in OSG, add salt, check dosing chemicals, check intake and remove debris, start backwash of filters, draw down on chemicals to ensure correct amount of dose used for coagulation, valve changes, media replacement, jar tests, calibration of lab equipment
- WTPO 2 certified
- 13 **Skarbek, Brady J. Grade 2 Reciprocity** **Approve Grade 2 Reciprocity**  
Indiana County Municipal Service Authority  
Conventional Treatment, Membrane Filtration  
Supervisor Zach Carnahan  
WTPO  
2 yrs/6 mos
- Operate conventional filtration and membrane filtration equipment to purify and clarify water, add chemicals such as sodium hypochlorite, aluminum sulfate, soda ash, and potassium, inspect calibration equipment, plant generators, and pumps, clean and repair chemical injectors, recirculating pumps, peristaltic pumps, injection points, monitor operating conditions, meters, and gauges, record readings and operational data, collect and test water samples
- Pennsylvania Water System Class C, E Distribution System, Water, Subclass 1 Conventional filtration, 6 Membrane filtration, 7 Corrosion control and sequestering, 8 Chemical addition, 9 Ion exchange and greensand, 12 Non-gaseous chemical disinfection Certificate No. W28057 expires 12/31/2027
  - Pennsylvania combines water distribution and water treatment into one certification with the subclasses designating specific treatments
  - Pennsylvania Water System Class C, E, Water Subclass 1, 6, 7, 8, 9, 12 requires
    - high school diploma
    - 2 years of operating experience
    - passing of Class C distribution exam and specific treatment exams
  - Pennsylvania writes their own exams
  - Recommend Hawaii WTPO 2 reciprocity to match Pennsylvania's 2-year experience requirement and applicant's 2+ years of conventional treatment and membrane filtration experience

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- 14 **Hansen, Brandon M. Grade 3 Reciprocity** **Approve Grade 3 Reciprocity**
- City of Brooklyn Park  
Conventional Treatment  
Supervisor Mitch Zwiag  
Water Treatment Plant Operator  
3 yrs/5 mos
- Check SCADA to ensure proper functioning, check reservoir levels for sufficient water supply, change set points of water towers, turn on/off pumps, analyze trends of equipment functions, check influent and effluent water supply and adjust accordingly, turn on/off/increase/decrease aeration pumps to accommodate influent water demand, record data of chemicals used, collect and test samples for manganese levels and chlorine, inspect filter cells and backwash if needed, verify function of clarifier polymer pumps, change polymer supply drums, check polyphosphate pumps, and supply, monitor chlorine and fluoride feed systems, operate control of actuators, inspect all rooms throughout treatment plant, etc.
- Minnesota Water Supply System Operator Class C Certificate 15900 expires 4/30/2028
  - Minnesota combines water distribution and water treatment into one certification with Class C as the middle of 5 classes
  - Minnesota Water Supply System Operator Class C requires
    - high school diploma
    - 3 years of operational experience
    - passing of a Class C exam
  - Minnesota writes their own exams
  - Recommend Hawaii WTPO 3 reciprocity to match Minnesota's 3-year experience requirement and applicant's 3+ years of conventional treatment experience

ATTACHMENT 2  
WTPO DECISIONS  
5-21-2025

- 15 **Arentz, Christopher L. Grade 3 Reciprocity** **Approve Grade 3 Reciprocity**
- |  |   |
|--|---|
| Eklutna Water Treatment Facility<br>Conventional Treatment<br>Supervisor Brad Stitzel<br>Treatment Plant Operator<br>1 yr/2 mos      | Operate and maintain Eklutna Water Treatment Facility, set poly aluminum chloride, chlorine and fluoride dosage based on water quality parameters for that day, perform facility rounds, inspections and preventative maintenance of all treatment process equipment including pumps, valves, tanks, weirs, analyzers, sensors and flow meters, perform lab analysis and instrument calibrations for water quality and reporting, back wash filters as needed, load chemicals for water treatment process |
| Ship Creek Water Treatment Facility<br>Conventional Treatment<br>Supervisor Joseph Polowy<br>Treatment Plant Operator<br>2 yrs/5 mos | Operate and maintain the Ship Creek Water Treatment Facility, set poly aluminum chloride and chlorine dosage based on water quality parameters for that day, perform facility rounds, inspections and preventative maintenance of all treatment process equipment including pumps, valves, tanks, weirs, analyzers, sensors and flow meters, perform lab analysis and instrument calibrations for water quality and reporting, back wash filters as needed, load chemicals for water treatment process    |
- Hawaii WTPO 2, DSO 4 certified
  - Alaska Water Treatment Operator 4 #25613 expires 12/31/2025
  - Alaska Water Treatment Operator 4 is the highest water treatment level out of 4 levels
  - Alaska Water Treatment Operator 4 requires
    - high school diploma plus 4 years postsecondary education
    - passing of an Alaska Water Treatment Operator 4 exam
    - 4 years of appropriate experience (wastewater experience is interchangeable)
  - Alaska Water Treatment Operator 4 exam is equivalent to Hawaii Water Treatment Plant Operator Grade 4 exam according to ABC Examination Equivalency Chart
  - Although applicant has passed an equivalent grade 4 exam, recommend Hawaii WTPO 3 reciprocity for applicant's 3+ years of conventional treatment experience

ATTACHMENT 2  
WTPO DECISIONS  
5-21-2025

16 **Peterson, David W. Grade 4 Reciprocity**

**Approve Grade 4 Reciprocity**

Metro Utility Company  
Package Conventional Treatment  
Supervisor Michael Masson  
Division Manager  
7 yrs

Plant updates and expansions for water production and treatment on groundwater wells with iron and arsenic treatment plants followed by chlorination and fluoridation, CIP, regulatory and budgeting

- Arizona Grade 4 Water Treatment System Operator #OP021351 expires 6/30/2025
- Arizona Grade 4 Water Treatment System Operator is the highest water treatment level out of 4 levels
- Arizona Grade 4 Water Treatment System Operator requires
  - high school diploma and 3 years of qualifying experience
  - OR a qualifying bachelor's degree and 2 years of qualifying experience
- Arizona Grade 4 Water Treatment System Operator exam is equivalent to Hawaii Water Treatment Plant Operator Grade 4 exam according to ABC Examination Equivalency Chart
- Recommend Hawaii WTPO 4 reciprocity for applicant's 7 years of conventional treatment experience and passing of an equivalent grade 4 exam

ATTACHMENT 3  
CEU DECISIONS  
5-21-2025

**Hawaii Courses**

- 1 Introduction to Control Systems Cybersecurity 101**  
9/4/24  
CISA  
4.0 Contact Hours  
**0.4 CEUs**

This course introduces students to industrial control systems (ICS) cybersecurity basics. This includes a comparative analysis of IT and ICS architectures, understanding risk in terms of consequences, security vulnerabilities within ICS environments, and effective cyber risk mitigation strategies for the control systems domain.
- 2 Cybersecurity Evaluation Tool (CSET) Training**  
9/4/24  
CISA  
3.5 Contact Hours  
**0.35 CEUs**

Topics:

  - Discuss the purpose and benefits of CSET, Cybersecurity Evaluation Tool
  - Describe the steps to conduct a CSET assessment
  - Describe the steps to conduct a CSET Ransomware Readiness Assessment
- 3 2025 Pacific Water Conference Top Ops (Contestants Only)**  
2/5/25  
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 compete in a fast-paced question and answer tournament. Teams will be tested on their knowledge of the following areas: basic sciences as they apply to water technology, public health and sanitary practices, plant and pump o&m, plant and laboratory safety, process control, laboratory operations, monitoring requirements, water distribution, water hydrology, intermediate level mathematics.
- 4 Emergency Preparedness Modeling for Distribution Systems**  
3/5/25  
AWWA webinar  
1.5 Contact Hours  
**0.15 CEUs**

This webinar will focus on helping utilities make informed decisions using hydraulic modeling to quantify and mitigate risks common to distribution systems.
- 5 Chlorine Dioxide for Drinking Water Treatment**  
3/12/25  
AWWA webinar  
1.5 Contact Hours  
**0.15 CEUs**

This webinar will help utilities evaluate the potential application of chlorine dioxide in their systems.
- 6 Managing Contaminated Drinking Water Post-Hurricane**  
3/12/25  
US EPA webinar  
1.0 Contact Hour  
**0.1 CEUs**

This webinar will discuss a simulated post-hurricane contamination of a drinking water distribution system that was conducted at EPA's Water Security Test Bed (WSTB), a first-of-its-scale replication of a typical municipal drinking water piping system. For this experiment, the 450-foot-long pipe and associated premise plumbing were contaminated with diesel fuel, saltwater, and E. coli. The presenter will discuss how the system was monitored before, during, and after decontamination and provide the results.

ATTACHMENT 3  
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- 7 **New Administration, New Congress, and Complying with Recent Rulemakings**  
3/19/25 This webinar is a status report and a look ahead at the federal water policy  
AWWA webinar landscape, taking into account this year’s new Congress and change in  
1.5 Contact Hours administration. The webinar will include focused discussion of early  
**0.15 CEUs** implementation considerations under the LCRI and PFAS.
- 8 **Fire Season: Distribution Tank Strategies for Water Quality**  
3/20/25 This webinar will tackle critical challenges in water tank management,  
Cleanwater1 webinar highlighted by real-world fire events, and introduce proven technologies that  
1.0 Contact Hour can transform your system.  
**0.1 CEUs**
- 9 **Disinfection Byproducts: Inorganic Chloramine**  
3/25/25 This presentation will discuss research that has expanded our knowledge of  
US EPA webinar inorganic chloramine decomposition chemistry. It will provide an updated  
1.0 Contact Hour understanding of 1) dichloramine decomposition and a revised pathway for N-  
**0.1 CEUs** nitroso dimethylamine formation in chloraminated drinking water; 2) how  
chloronitramide anion is a result of inherent chloramine instability; and 3) how  
chloronitramide anion was detected in 40 samples from 10 chloraminated  
drinking water system in the US but not from ultrapure water or water treated  
without chlorine.
- 10 **Rethinking Reserves**  
3/26/25 This webinar will focus on resources and strategies to apply risk-aware and risk  
AWWA webinar savvy thinking to financial reserves in utility organizations, with a special  
1.5 Contact Hours emphasis on water utilities.  
**0.15 CEUs**
- 11 **Investigating Enforcement Mechanisms Beyond Local Ordinances – A Look into AWWA’s New Guidance**  
4/2/25 This webinar will provide exclusive insight into the key findings of AWWA’s new  
AWWA webinar guidebook on Investigating Current Enforcement Mechanisms in Water Utility  
1.5 Contact Hours Policies Beyond Local Ordinances, including utility representatives sharing their  
**0.15 CEUs** valuable takeaways for utility’s conservation needs.
- 12 **AWWA’s New Guidebook: Climate Change Impacts in Water Demand Forecasting**  
4/23/25 This webinar will provide attendees with a look inside the development,  
AWWA webinar findings, and key takeaways of AWWA's new “Guidance on Integrating Climate  
1.5 Contact Hours Change Impacts into Water Demand Forecasting” Guidebook.  
**None**
  - Topic is not related to operation and maintenance of a distribution system or treatment plant

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CEU DECISIONS  
5-21-2025

- 13 **Microplastics 2025: The Health Effects Synopsis**  
4/30/25  
AWWA webinar  
1.5 Contact Hours  
**None**
- This webinar discusses the reasons for the challenge of determining health effects on the body despite the demonstrated ubiquity of microplastics in the environment and provides a briefing on our current understanding of microplastics toxicology.
- Topic is not related to operation and maintenance of a distribution system or treatment plant
- 14 **Victaulic Training**  
5/1/25  
Victaulic  
1.0 Contact Hours  
**0.1 CEUs**
- Topics:
- Overview of Mechanical Piping Concepts
  - Victaulic Product Range
  - Coupling Technology and Installation
  - Safety Considerations
  - Troubleshooting and Maintenance
  - Differential Settlement Overview
- 15 **DOH SDWB Regulatory Update**  
5/7/25  
AWWA Hi  
5.5 Contact Hours  
**0.5 CEUs (no credit for 30-minute AWWA meeting)**
- Topics:
- Sanitary Survey Regulatory Update
  - Lead and Copper Rule Regulatory Update
  - PFAS Rule Regulatory Update
  - Consumer Confidence Rule Regulatory Update
  - Red Hill Drinking Water Contamination
  - HDWS Hilo Baseyard Tour (meter shop demonstration, water quality lab tour, backflow prevention test bench demonstration)
- 16 **PFAS Removal – Novel Adsorbents and Process**  
5/8/25  
AWWA webinar  
1.0 Contact Hour  
**0.1 CEUs**
- This webinar will explore the novel sorbents used in the AquaPRS PFAS Removal system process to achieve the new regulatory requirements which can be used in a range of applications within the water industry. This new technology can handle low to high concentration PFAS waters while producing high-quality micro-filtration effluent water.

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17 **OSHA Compliance and Safety Training**

5/20/25

County of Kauai, HIOSH

5.25 Contact Hours

**0.525 CEUs**

Topics:

- OSHA Standards
- Atlas Safety Brief
- Portable Fire Extinguisher
- Hazard Communication
- Bloodborne Pathogens
- Walking-Working Surfaces
- Personal Protective Equipment
- Fall Protection for General Industry
- Hazard Perception
- Ladder Safety
- Back Safety

18 **Funding Resources: Lead Service Line Replacement and Emerging Contaminants**

5/20/25

US EPA

1.0 Contact Hour

**0.1 CEUs**

Topics:

- Funding for States to Support Lead Service Line Replacements and Addressing Emerging Contaminants
- Grant Funding for Public Water Systems to Address Emerging Contaminants in Small or Disadvantaged Communities

19 **National Water and Wastewater Sector Cybersecurity Drill**

5/27/25

US EPA

2.0 Contact Hours

**0.2 CEUs**

This course will help utilities test their emergency response plans, assist utilities in testing their ability to identify, report, and respond to cyberattacks, and increase awareness of the potential damage that can be caused by a cybersecurity attack on an operational technology (OT) system.

20 **Addressing Contamination Incidents in RRAs & ERPs**

5/27/25

US EPA

1.0 Contact Hour

**0.1 CEUs**

Topics:

- Understand the requirements and upcoming deadlines associated with SDWA 1433
- Learn about contamination incidents at water utilities
- Learn how to address contamination incidents in your SDWA 1433 RRA
- Learn how to incorporate contamination incidents in your SDWA 1433 ERP
- Know how to certify completion of your RRA and ERP to EPA prior to the upcoming deadlines in 2025-2026

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21 **Cybersecurity 103**

6/10/25

US EPA webinar

1.5 Contact Hour

**0.15 CEUs**

Topics:

- Cyber Threats to Critical Infrastructure
- Review of Common Threats to Water Systems
- State-Sponsored Cyber Threats
- Targeting of ICS/SCADA Devices
- Real-life Examples of Cybersecurity Threats/Incidents
- Best Practices to Protect Water Systems
- EPA Cybersecurity Resources
- Cybersecurity Incident Reporting

**Repeating Courses**

22 **Capital Improvement Planning**

RCAC

2.0 Contact Hours

**0.2 CEUs**

Topics:

- What a CIP is and why a water system needs one
- Strategic planning to prioritize projects
- How to implement a CIP and access funding resources

23 **Water Distribution System Operations & Maintenance**

RCAC

4.0 Contact Hours

**0.4 CEUs**

Topics:

- Water sources and water quality issues
- Water distribution system components
- Disinfection techniques
- Distribution system safety
- Water distribution system math

24 **Water System Basic Operations**

RCAC

2.0 Contact Hours

**0.2 CEUs**

Topics:

- Drinking water regulations
- Capacity development
- Water source
- Water treatment facilities and water distribution systems
- Financial responsibilities

**Correspondence/Online Courses**

25 **Backflow Awareness**

Technical Learning College

10.0 Contact Hours

**1.0 CEUs**

This course covers the basics of backflow prevention, cross-connection control, water quality issues, hydraulic laws, Pascal and Bernoulli, and backflow related threats.

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- 26 **Chlorination 404**  
Technical Learning College  
36.0 Contact Hours  
**3.6 CEUs**  
This course covers disinfection in distribution systems that are a fair distance from the storage tanks and in dead end sections or where water is not used. Pathogens may re-grow if a proper chlorine residual cannot be maintained in the treated water sent out for consumption. This results in poor water quality as well as slime and biofilms in the distribution systems that will end up contaminating the clean, treated water being distributed.
- 27 **Hydraulic Principles**  
Technical Learning College  
8.0 Contact Hours  
**0.8 CEUs**  
This course will cover the basics of hydraulic fundamentals commonly related to the study of the mechanical properties of water. It will also examine hydrostatics or fluid mechanics as well as the history and development of pumps, hydraulics and the science of fluids.
- 28 **Laboratory Safety**  
Technical Learning College  
10.0 Contact Hours  
**1.0 CEUs**  
The goal of a Laboratory Safety and Chemical Hygiene Program is to make sure employers and employees know about potential work hazards, how to recognize them and, most importantly, how to protect themselves. This course is designed to help reduce the possible incidence of chemical source illness and injuries.
- 29 **Asset Management**  
Watura  
1.0 Contact Hour  
**0.1 CEUs**  
Topics:
  - Introduction to Asset Management
  - Procedure for Collecting Data on Drinking Water and Wastewater Systems
- 30 **District Meter Areas**  
Watura  
1.5 Contact Hours  
**0.15 CEUs**  
Topics:
  - Introduction to District Meter Areas
  - Designing District Meter Areas
  - Using District Meter Areas
- 31 **Drinking Water Pumping**  
Watura  
1.5 Contact Hours  
**0.15 CEUs**  
Topics:
  - Types of Pumps
  - Surface Pumping Facilities
  - Use of Instrumentation
- 32 **Drinking Water Quality Testing and Monitoring**  
Watura  
1.0 Contact Hours  
**0.1 CEUs**  
Topics:
  - Basics of Water Quality
  - Drinking Water Quality Monitoring
  - Drinking Water Quality Testing

ATTACHMENT 3  
CEU DECISIONS  
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**33 Inspection and Maintenance of Centrifugal Pumps**

Watura

1.5 Contact Hours

**0.15 CEUs**

Topics:

- Common Hydraulic Parameters
- The Operating Point of Centrifugal Pumps
- Electrical Inspection
- Mechanical Monitoring
- Thermography
- Performance Monitoring and Analysis

**34 Level Sensors in Drinking Water and Wastewater Systems**

Watura

2.0 Contact Hours

**0.2 CEUs**

Topics:

- Different Types of Level Sensors
- Basic Level Sensors
- Working Principle of Level Sensors

**35 Maintenance of Drinking Water Systems**

Watura

1.5 Contact Hours

**0.15 CEUs**

Topics:

- General Concepts of Maintenance
- Maintenance of Drinking Water Distribution Systems
- Maintenance of Drinking Water Facilities and Treatment Plants

**36 Operation of Drinking Water Distribution Systems**

Watura

1.5 Contact Hours

**0.15 CEUs**

Topics:

- Water Path and Components of a Drinking Water Distribution System
- Structures and Components of a Drinking Water Distribution System

**37 Urban Hydraulics**

Watura

1.5 Contact Hours

**0.15 CEUs**

Topics:

- Hydraulic Functioning of a Drinking Water Distribution System
- Static Pressure

**38 Water Chemistry**

Watura

1.5 Contact Hours

**0.15 CEUs**

Topics:

- Basics of Water Chemistry
- The Different Units and Formulas Used in Water Chemistry

**39 Manage for Success 2<sup>nd</sup> Edition**

CSUS

35.0 Contact Hours

**3.5 CEUs**

Topics:

- Executive Management
- Asset Management
- Finances and Rates
- Resiliency, Sustainability, and Security
- Workforce Development and Community Engagement

ATTACHMENT 3  
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**Mainland Courses**

**40 OAWU Annual End of Year Operators Conference**

12/10-12/24

Oregon Association of  
Water Utilities

12.75 Contact Hours

**1.275 CEUs**

Topics:

- How to Start and Fund Asset Management from Scratch
- NPSH and Cavitation in Centrifugal Pumps
- LCRR Update
- Disinfection Alternatives
- Pipe
- Hydraulic Control Valve Basics
- Laboratory Work and Sampling
- Cybersecurity for Rural Water Systems