

National Rural Water Association (NRWA) DSO & WTPO Certification Training

FREE

**0.3 CEU-10s
PER TRAINING**

CONTACT NRWA
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FOR MORE INFO

**NO
REGISTRATION
REQUIRED**

Date	Island	Time	Location	Training
06/02/08	Oahu	9:00am - 12:00pm	A	7
06/02/08	Oahu	1:00pm - 4:00pm	A	8
07/07/08	Oahu	9:00am - 12:00pm	A	9
07/07/08	Oahu	1:00pm - 4:00pm	A	10
08/04/08	Oahu	9:00am - 12:00pm	A*	11
08/04/08	Oahu	1:00pm - 4:00pm	A*	12
09/08/08	Oahu	9:00am - 12:00pm	A*	13
09/08/08	Oahu	1:00pm - 4:00pm	A*	14

06/04/08	Kauai	9:00am - 12:00pm	B	7
06/04/08	Kauai	1:00pm - 4:00pm	B	8
07/09/08	Kauai	9:00am - 12:00pm	B	9
07/09/08	Kauai	1:00pm - 4:00pm	B	10
08/06/08	Kauai	9:00am - 12:00pm	B	11
08/06/08	Kauai	1:00pm - 4:00pm	B	12
09/10/08	Kauai	9:00am - 12:00pm	B	13
09/10/08	Kauai	1:00pm - 4:00pm	B	14

06/06/08	Molokai	9:00am - 12:00pm	D	7
06/06/08	Molokai	1:00pm - 4:00pm	D	8
07/11/08	Molokai	9:00am - 12:00pm	D	9
07/11/08	Molokai	1:00pm - 4:00pm	D	10
08/08/08	Molokai	9:00am - 12:00pm	D	11
08/08/08	Molokai	1:00pm - 4:00pm	D	12
09/12/08	Molokai	9:00am - 12:00pm	D	13
09/12/08	Molokai	1:00pm - 4:00pm	D	14

Date	Island	Time	Location	Training
06/09/08	Maui	9:00am - 12:00pm	E	7
06/09/08	Maui	1:00pm - 4:00pm	E	8
07/14/08	Maui	9:00am - 12:00pm	E	9
07/14/08	Maui	1:00pm - 4:00pm	E	10
08/11/08	Maui	9:00am - 12:00pm	E	11
08/11/08	Maui	1:00pm - 4:00pm	E	12
09/15/08	Maui	9:00am - 12:00pm	E*	13
09/15/08	Maui	1:00pm - 4:00pm	E*	14

06/10/08	Hilo	9:00am - 12:00pm	F	7
06/10/08	Hilo	1:00pm - 4:00pm	F	8
07/15/08	Hilo	9:00am - 12:00pm	F	9
07/15/08	Hilo	1:00pm - 4:00pm	F	10
08/12/08	Hilo	9:00am - 12:00pm	F	11
08/12/08	Hilo	1:00pm - 4:00pm	F	12
09/16/08	Hilo	9:00am - 12:00pm	F	13
09/16/08	Hilo	1:00pm - 4:00pm	F	14

06/12/08	Kona	9:00am - 12:00pm	G	7
06/12/08	Kona	1:00pm - 4:00pm	G	8
07/17/08	Kona	9:00am - 12:00pm	G	9
07/17/08	Kona	1:00pm - 4:00pm	G	10
08/14/08	Kona	9:00am - 12:00pm	G	11
08/14/08	Kona	1:00pm - 4:00pm	G	12
09/18/08	Kona	9:00am - 12:00pm	G	13
09/18/08	Kona	1:00pm - 4:00pm	G	14

Training

7 - Pumps & Motors by Joe Little. Every water plant has pumps and motors. This class will look at the different types of pumps and motors, their uses and drawbacks, as well as their operation and maintenance. Some discussion of basic electricity will be included. Since pumps are used for everything from raw and finished water, to treatment chemicals, evaluating pump efficiency, motor and pump controls, and how to determine the proper motors and pumps for any given use will be reviewed.

8 - Basic Electricity/Electronics and Safety by Paul Strobe. A review of basic electrical theory and use will be combined with a look at newer electronic devices for monitoring and record keeping. This information will be combined with how to safely work around electrical equipment. Other safety matters will include working in confined spaces, and lock-out/tag-out procedures.

9 - Basic Operation & Maintenance by Dale Pierson. This class is a discussion of the proper operation and maintenance of plant and distribution system equipment. This course will look at the use of operation manuals, the use of calendars and maintenance cards, and the overall importance of properly maintaining all the equipment associated with running a water treatment plant. Proper O&M will keep a plant running longer, create less work for the operator in the long run, and provide safe water at a lower cost to the customer.

10 - Storage, Distribution, & Leak Detection by Rick Duncan. This course will discuss the issues surrounding getting treated water to the customers. The use of storage for fire protection, disinfection, and water demand will be discussed. The care and maintenance of storage tanks will also be reviewed. Distribution system integrity, cleaning, and maintenance will be discussed along with methods of leak detection and repair.

11 - Meter & Valve Repair by Phil Bastin. This class will look at the basics of meter reading, testing, adjustment, and repair. A discussion of meter types and mechanisms will lead to an evaluation of how practical it is to perform your own maintenance of meters. The various types and uses of valves will be discussed along with common maintenance and repair procedures.

12 - New Regulations by Jerry Biberstine. This class will address the new requirements for such rules as the Groundwater Rule, the LT2 Surface Water Treatment Rule, the Stage 2 Disinfection By-Products Rule, and the developing Distribution System Rule including potential changes to the Total Coliform Rule. Discussion will be on the impacts of the rule, the implementation details, the health reasons behind the rules, and how to comply with the rule in the easiest and cheapest manner.

13 - Math II by Matt Holmes. Advanced equations. Discussion of water related constants. Solving word problems involving areas, volumes, pumping rates, feed rates, and other related water issues will be a major part of this course. Practical application of math and the equations learned through this course will be stresses.

14 - Disaster Preparedness by Dan DeMoss. This class will be devoted to the discussion of how to plan for and handle emergencies that may befall a water system. The impacts of hurricanes, tornadoes, flood, fire, power outage, and other emergencies will be discussed. How to develop an Emergency Response Plan will be discussed. Working with local, state, and federal agencies during and following an emergency will be reviewed.

Location

A - State Laboratories Division Auditorium, 2725 Waimano Home Rd., Pearl City, Oahu, 96782

B - Department of Agriculture Conference Room, 4398A Pualoke St., Lihue, Kauai, 96766

D - Department of Hawaiian Homelands, Kulana Oihi Bldg., 600 Maunaloa Hwy, Kaunakakai, Molokai, 96748

E - State Building Conference Room B, 54 High St., Wailuku, Maui, 96793

F - Environmental Health Services Facility Conference Room, 1582 Kamehameha Ave., Hilo, Hawaii, 96720

G - Natural Energy Laboratory of Hawaii Authority, 73-4460 Queen Kaahumanu Hwy., Kailua-Kona, Hawaii 96740

*Tentative, please call for confirmation.