

Operators Quarterly

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Five Additional Wastewater Classes Available

The Department of Environmental Quality has allocated additional wastewater funding to Brown Environmental allowing five extra wastewater classes to be offered this year. The five days will consist of a one-day workshop in Large Soil Absorption Systems and another in Lagoons both of which meet part of the Very Small Wastewater System Licensure requirements, a one-day workshop in Laboratory QA/QC, and a two-day workshop in Land Application.

Large Soil Absorption	June 15	Sandpoint
Land Application Licensure Review	June 29-30	Sandpoint
Lagoon O&M	Sept. 22	Idaho Falls
Laboratory QA/QC	Sept. 23	Idaho Falls

Sign Up Early!

Due to a limited number of spaces in each class, students should sign up early for desired classes in order to avoid disappointment later. Students can always cancel later if necessary but early registration guarantees a place in the class.

New Requirements for Lagoon Seepage Testing

DEQ has new requirements for lagoon seepage testing for lagoon owners and operators in Idaho. IDAPA rules tell us that all existing lagoons must be seepage tested by an Idaho licensed professional engineer, or an Idaho licensed professional geologist or individuals under their supervision by April 15, 2012. Following successful results from the initial test, each lagoon must be retested every 10 years.

Lagoons must be designed for a maximum leakage rate of 500 gallons per acre per day. The operating standard says that lagoons constructed after April 15, 2007 must not leak more than approximately 3400 gallons per acre per day. A lagoon which is found to be leaking at higher than the approved rate must negotiate a schedule with DEQ to repair or reline and retest the lagoon. The owner also has the option of draining the lagoon in an approved manner and stop using it. Lastly, the owner may determine the impact of the leaking lagoon on the environment based on ground water sampling and modeling. Any groundwater testing programs must be approved by DEQ

Register today @

WWW.

idahooperatortraining
.com

or call 1-800-543-4358

or 465-5725 in the Boise Area

Lagoons Operation & Maintenance

\$50

0.7 WW CEUs

*June 17, Meridian • September 22, Idaho Falls
October 21, Coeur d'Alene*

Veronica Shawcroft discusses the basics of lagoon operation and maintenance, including microbiology of a lagoon, factors affecting the efficiency of lagoons, dike maintenance, and weed control. Biochemical oxygen demand, solids, pH and loadings are addressed. Troubleshooting, preventative maintenance, data collection, and permit requirements are included. Specific problems often encountered in the field will also be discussed. This class fulfills part of the very small wastewater licensure requirements.

Large Soil Absorption Systems **\$50**

0.7 WW CEUs

June 9, Idaho Falls • June 15, Sandpoint • July 21, Boise

This workshop is designed for operators that maintain a soil absorption system. The student will learn about system design, pump requirements, annual reports, operation and maintenance plans, and bacteriological characteristics and how they work, pollution prevention methods, pH, loading rates and toxicity, as well as criteria to recognize a failing system.

Idaho has 85 soil absorption systems. This workshop will help you maintain and identify good operational practices to enhance the life of your system. This class fulfills part of the very small wastewater licensure requirements.

Land Application Licensure Review **\$70**

1.4 WW CEUs

June 29-30, Sandpoint

Prepare for the reuse licensure exam by reviewing the Wastewater Reuse Program, including operations and site management, pretreatment, lab testing, site monitoring, and loading rates. Reuse guidance and policy developments will be discussed, along with operator math and other certification requirements. This workshop is presented by Daniel Burgard and/or Daniel Bruner of Cascade Earth Sciences.

Pumps and Motors **FREE**

0.7 W/WW CEUs

July 20, Boise

Ross Spackman, PhD has designed this one-day course for persons involved in the operation and maintenance of mechanical equipment in water and wastewater treatment plants and pump stations. Hands-on lab exercises and troubleshooting simulations will be part of the class. Reading and interpreting pump curves will also be covered. Bring your calculator to practice working simplified math problems pertinent to pumps and motors. This class also fulfills part of the very small wastewater licensure requirements.

Collections III & IV Licensure Review **\$70**

1.4 WW CEUs

July 27-28, Idaho Falls

Topics in this certification review class taught by Victor Coles will include such items as communications, safety, collection system structural analysis via TV, hydro-cleaner, and hydro-vac use in sewer line maintenance, causes and effects of hydrogen sulfide gas, trench safety, and confined space entry procedures. The exam review includes practice tests for Class III & IV.

Cross Connections Basic **FREE**

0.7 W/WW CEUs

August 4, Grangeville • October 6, Paul

This very timely workshop will outline the requirements of water purveyors in developing a cross connection program. Bill Thompson, a certified cross-connection instructor, will address all of the elements that are essential for a safe control program. Bill will cover the various types and applications of CC devices. A discussion of the Pacific Northwest codes as well as how to develop and enforce an ordinance will also be addressed. Case studies will highlight the importance of implementing and maintaining a written program.

VSWs Licensure Review **FREE**

0.7 W CEUs

*August 7(Sat), Post Falls • October 5, Jerome
November 16, Nampa*

This one-day review will cover mathematics, disinfection, safety, general operation and maintenance practices, laboratory, pumping and storage, and the basic characteristics of water. Pat Brown will review example certification exam questions throughout the workshop. This course is specifically designed for operators of very small water systems.

Wastewater III & IV Licensure Review **\$70**

1.4 WW CEUs

August 18-19, Pocatello

This review workshop is designed for experienced operators. Pat Brown and Veronica Shawcroft will review the concepts of advanced process control, troubleshooting, laboratory and management issues. Students will discuss different approaches to problem solving and will have an opportunity to answer typical exam questions. Don't forget your calculator!

Water Tank Maintenance **FREE**

0.7 W CEUs

August 10, Paul

This water storage tank workshop is designed for all operations and maintenance personnel who maintain and/or operate potable water storage tanks. Thom Tackman discusses recommended tank maintenance requirements (such as structural and protective coating inspections), tank operational concerns, tank disinfection and mixing techniques, and site security measures. The instructor will also cover training on water storage problem-solving techniques, and storage tank/chlorination math. This class will provide valuable information for the entry level operator through water system management, and system design engineering team members.

Disinfection

August 11, Paul

This one-day workshop will discuss water chemistry and chlorine, the theory of how chlorine works, associated math, and water-borne diseases. Chlorination and hypochlorination equipment, safety, and storage will be addressed by Thom Tackman of Process Solutions, Inc. Coliform sampling and approved testing for residual and bacteria are included. This includes a discussion on the pros and cons of ultraviolet light (UV), ozone, and other methods of disinfection. This class fulfills part of the very small water licensure requirements.

Crew Leader

June 1, Orofino • August 31, Idaho Falls • November 30, Boise

This one-day class focuses on building supervisory skills and planning successful repair projects. There are group exercises and organizational tools to help operators and managers be more effective and efficient. Aspects of crew management, including safety, traffic control and blueprint reading will be covered. Not every emergency or project has to be a disaster.

Buried Treasure

September 1, Twin Falls

The water distribution system represents the largest financial investment most communities make. This one-day course begins with an overview of the maintenance and management issues facing water utilities. Distribution system inspection and monitoring topics including pressure, taste and odor problems, disinfection, corrosion and mapping are covered. Piping systems and materials are also discussed. This course is designed for less experienced operators but is suitable for all levels. This class meets part of the very small water licensure requirements.

Collections Licensure Review

September 7-8, Lewiston

This workshop taught by Victor Coles will provide training and review for both collection system certification and day-to-day activities. Collections system maintenance discussions will include the causes and effects of hydrogen sulfide, oxygen deficiency, trench safety, and confined space entry. This exam review includes practice tests for Class I & II.

FREE Small System O&M

0.7 W/WW CEUs

September 2, Boise

This workshop addresses the operation and maintenance of small drinking water systems. John Marble will discuss topics that include monitoring water and wastewater quality, disinfection, sampling techniques, and routine system checks. The fundamentals of data collection will be covered.

Water Treatment Optimization

FREE

0.7 W CEUs

September 9, Coeur d'Alene • Nov 4, Idaho Falls

This workshop will focus on optimizing water treatment processes and maintaining water quality in the distribution system. Eric Landsberg and Stuart Hurley will present strategies for optimizing filter performance, tracking disinfection performance, and controlling DBP formation. Eric and Stuart will also cover distribution system water quality issues including microbiological control and hydraulic optimization.

Laboratory QA/QC

\$50

0.7 WW CEUs

September 23, Idaho Falls

This one-day workshop is designed for students with a good understanding of laboratory data and water or wastewater testing. Pat Brown will discuss the components of a quality assurance plan, instrument and testing quality control, data validity, range charts, X charts, reporting significant figures and more. Discussion of the components and development of a QA plan is included. The EPA-approved QA/QC and chain-of-custody procedures described in Requirements for Quality Assurance Project Plans (EPA/QA/R-5) and Guidance for Quality Assurance Project Plans (EPA/QA/G-5) are used as examples. Avoid compliance problems dealing with the lab. Sign up today.

Intro to Sampling/ Distribution Monitoring

FREE

0.7 W CEUs

September 28, Twin Falls • September 30, Nampa

This course covers proper sampling and field-testing techniques for distribution system monitoring. Discussions will include the importance of consistency training and written sampling plans. Techniques covered in the course will include the measurement of several common parameters relating to distribution systems such as disinfection residual (chlorine or chloramines where applicable) pH and conductivity. A short overview of data interpretation is included. Participants will also gain hands-on experience with various high range hypochlorite and chlorine titrations as they apply to line disinfection.

\$70

1.4 WW CEUs

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THE IDAHO CERTIFICATION AND OPERATION NEWSLETTER

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Online Practice Questions and Tests are Available

For those wishing to hone their skills for the wastewater licensure exams, the Water Environment Federation offers Skills Builder as part of their website offerings. The prospective student may choose from fundamental, intermediate, and advanced skill levels for laboratory and wastewater. The quizzes are presented in sets of ten with the correct answer given after the student inputs an answer. Quizzes are graded at the end and students have the option to retake a difficult test or answer new questions.

Both water and wastewater operators can answer sample questions on www.moehlmann.com with practice exams available for all certification levels for \$95.00 per test. Steve Moehlmann was originally involved with the Associated Boards of Certification Board when it first began operations as a national certifying authority.

The Operators Quarterly

is a quarterly newsletter dedicated to the training, operation, and licensure concerns of the water and wastewater systems and operators in Idaho. The Operators Quarterly is published to promote the Statewide Drinking Water & Wastewater Operator Training Program. This program is funded by the Department of Environmental Quality. Brown Environmental, Inc. is contracted by the State of Idaho to conduct the statewide training program. Any inquiries about the newsletter or training courses should be directed to Brown Environmental, Inc.

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