

**Fall 2010**  
**Water Operators**  
**Training Short School**  
November 2-4, 2010

**Class Location**

City of Hillsboro  
City Hall-Civic Center  
Rooms 113A & B  
150 NE Main Street  
Hillsboro, OR 97123

**Local Lodging**

Holiday Inn Express  
5900 NE Ray Circle  
Hillsboro, OR 97124  
Guest room reservations: (503) 844-9696  
Single occupancy government rate: \$96 + tax.

**Conference Cost**

(includes donuts, coffee and lunch each day)

OAWU Member: \$265

Non-Member: \$340

**Cancellation & Confirmation Policies**

No refunds will be issued and a standard registration fee will be billed for those who fail to attend and do not give the OAWU office a seven-day prior notice (no later than October 26, 2010).

Please keep a copy of your registration form or contact OAWU office at 503-873-8353 for confirmation.



**P.O. Box 857**  
**12312 Silverton Rd. NE**  
**Silverton, OR 97381-0857**  
**503-873-8353**

**Address Service Requested**

PRST STD  
US POSTAGE  
PAID  
SALEM, OR  
PERMIT NO. 106

**2010 Fall**  
**Water Operators**  
**Training Short School**

**Please forward to:**  
**All Water Treatment &**  
**Distribution Operators!**

# Oregon Association of Water Utilities



**Fall 2010**  
**Water Operators**  
**Training Short School**  
November 2-4, 2010

City of Hillsboro  
City Hall-Civic Center  
Rooms 113A&B  
150 E. Main Street  
Hillsboro, OR 97123

**Earn up to 2.0 Water CEUs**



Register quickly. The maximum attendance for this class is 65

## Training Short School Outline

A 3-day short school divided into sections to teach various aspects of Water Treatment Plant and Water Distribution System Operations and Maintenance. Instruction will be provided by various industry personnel and OAWU staff.

### Tuesday, November 2, 2010 (0.65 CEUs)

8:00–10:15

**Lab and Compliance issues:** Record Keeping, compliance monitoring, chain of custody records, and sample handling.

*Teresa Mireles, Umpqua Research Co.*

10:15–9:30

Break

10:30–12:00

**Water Cowboys:** The Cowboy is the icon of America. Learn about hard water cows, soft water cows, social water cows and how Water Purveyors Ride the Range to tend the herd. This session will delve deep into philosophy of why Water Purveyors are that last American hero. *Roger Prowell, Chenoweth Water PUD*

12:00–1:00

Lunch (provided)

1:00–2:15

**Health & Safety Issues:** This presentation will cover health and safety issues related to water utilities. The focus will be on hazards associated with confined spaces and hazard communication (chemical hazards).

*Stan Thomas, OSHA*

2:15–2:30

Break

2:30–4:00

OSHA Continued

### Wednesday, November 3, 2010 (0.7 CEUs)

8:00–10:00

**Electric Motors:** Interactive working groups defining motor terms and application methodology as it relates to nameplate nomenclature. Use calculations to determine motor and drive equipment operation costs and apply those results to simple life cycle costing to determine best repair or replace decisions.

*Dennis Downs, Green Motors Practices Group*

10:00–10:15

Break

10:15–12:00

**Hydrology for Water Operators:** This class presents information on basic hydrology as it pertains to public water supplies.

*Adam Sussman, GSI Water Solutions*

### Wednesday, November 3, 2010 Continued

12:00–1:00

Lunch (provided)

1:00–3:00

**Operator's Math:** This class will cover the understanding of math concepts and formulas for water and wastewater operators including areas, volume, conversions, pounds, formulas, velocity, flow, head and hydraulics and more for system operators. Please bring your calculators and system questions.

*Brendan Murphy, NRWA & OAWU Circuit Riders*

3:00–3:15

Break

3:15–4:30

**Tank Cleaning using Live Divers:** A step by step in understanding the aspects of using a diving team to visually inspect water reservoirs. *Brent Budden, Liquivision Technology*

### Thursday, November 4, 2010 (0.65 CEUs)

8:00–10:00

**History of Water Treatment:** History is valuable. In this class we will address when technologies were first discovered and how those technologies are used today. We will also discuss if those technologies can be applied to current treatment requirements. A few topics to be covered are heat, UV, coagulation, and colloidal silver treatments; pipe types, corrosion control, valve types, and tank and storage issues; chlorine and its variations, ozone, fluoride, and chemical feed in general.

*Don Van Veldhuizen, USABlueBook*

10:00–10:15

Break

10:15–12:00

**History of Water Treatment continued**

12:00–1:00

Lunch (provided)

1:00–2:15

**Leak Detection:** Benefits of leak detection and overview of equipment and techniques.

*Matthew Botermans, American Leak Detection*

2:15–2:30

Break

2:30–4:00

**Meters and AMR:** Meter sizing, testing, and AMR.

*Eric Schmidt, Ferguson Water Works*

Earn up to 2.0 CEUs/ESAC # TBA

WEB

**Fall 2010**

**Water Operators**

**Training Short School November 2-4, 2010**

Registration Form

OAWU Member: \$265

\*Non-Member: \$340

(includes donuts, coffee and lunch each day)

\*Each nonmember individual will receive a complimentary, one-year OAWU Individual Membership.

Name \_\_\_\_\_

Water Cert. #s \_\_\_\_\_ / \_\_\_\_\_ WW Cert. #s \_\_\_\_\_ / \_\_\_\_\_

System Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

System Phone \_\_\_\_\_

System Email \_\_\_\_\_

Payment Options

Payment enclosed

Please mail invoice

Purchase order # \_\_\_\_\_

**TOTAL:** \_\_\_\_\_

Charge my:  Visa  MasterCard  AMEX

Card # \_\_\_\_\_

Exp. Date \_\_\_\_\_ / \_\_\_\_\_

Card billing address \_\_\_\_\_

Cardholder Name \_\_\_\_\_

Signature \_\_\_\_\_

Please return registration form to OAWU

PO Box 857, Silverton, OR 97381

Fax: 503-873-8538

Contact: 503-873-8353/office@oawu.net/www.oawu.net