

HACH WATER TRAINING COURSES

SPRING SEMESTER 2010



California Rural Water Association is coordinating a series of comprehensive hands-on training classes with the Hach Company. Registration is 8:00 am to 8:30 am, class time is 8:30 am to 3:30 pm, lunch (on your own) is 12:00 pm to 1:00 pm.

Water operators who qualify for the Expense Reimbursement Grant may list their ERG number below in lieu of payment for these courses.* For more information on this program, please contact CPS at (866) 867-3594 or www.cps.ca.gov/tc/sws/. Please be advised that students using an ERG# who do not attend all class hours will owe CRWA a balance for their tuition.

DAY 1: Basic Water Analysis

6 CDPH Water Contact Hours

This class is an introduction to the testing techniques and systems available for water quality measurements in applications including drinking water, wastewater, environmental water, and industrial water. Testing techniques covered include colorimetric chlorine analysis, pH measurement, and turbidity. Along with proper measurement techniques, calibration, verification, and troubleshooting strategies for each parameter will be addressed and good laboratory practices will be emphasized. Participants will improve their lab skills and gain hands-on experience with chlorine, pH, and turbidity testing using portable field and laboratory instruments.

DAY 2: Process Instrument Verification

6 CDPH Water Contact Hours

This class is designed to provide participants with an understanding of the operation and maintenance of chlorine and turbidity process analyzers (CL17 and 1720 Series). Proper calibration and verification techniques for each instrument will be described in presentations and practiced in a hands-on laboratory environment. The course objectives will be met by presenting theory, incorporating practical applications of analytical techniques, and through demonstration and hands-on practice using on-line and laboratory instrumentation.

DAY 3: Sampling & Distribution System Monitoring

6 CDPH Water Contact Hours

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.

Please mark which days you will attend:

	<u>DAY 1</u>	<u>DAY 2</u>	<u>DAY 3</u>
Clearlake (Lake County)	___ Jan 12	___ Jan 13	___ Jan 14
Palmdale (Los Angeles County)	___ Jan 26	___ Jan 27	___ Jan 28
Merced (Merced County)	___ Feb 2	___ Feb 3	___ Feb 4
Redding (Shasta County)	___ Feb 23	___ Feb 24	___ Feb 25
Palm Springs (Riverside County)	___ Mar 2	___ Mar 3	___ Mar 4
Salinas (Monterey County)	___ Mar 9	___ Mar 10	___ Mar 11
Escondido (San Diego County)	___ Apr 6	___ Apr 7	___ Apr 8
Visalia (Tulare County)	___ May 18	___ May 19	___ May 20
Sacramento (Sacramento County)	___ Jun 8	___ Jun 9	___ Jun 10
Oxnard (Ventura County)	___ Jun 22	___ Jun 23	___ Jun 24

Registration Form

Attendee(s) Name(s): _____

System or Company Name: _____

System or Company Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ FAX: _____ Email: _____

CRWA Member (\$125 per day) Non-Member (\$175 per day) Payment Total: \$ _____

Check to follow in mail (payable to CRWA) Credit Card (print info below) *CPS ERG#: _____

Credit Card #: _____ Expiration Date: _____

Authorized Signature: _____

W102809

Cancellations must be received at the CRWA office in writing at least three days prior to the event in order to receive a refund. A processing fee of \$25 per student will be deducted from all refunds. We will send confirmation and a map within two weeks of class date. Please let us know if any registrant requires special accommodations for disabilities. Questions? Call 800-833-0322.

**TO REGISTER: Fax this form to 916-553-4904
or mail to CRWA, 4125 Northgate Blvd, Sacramento, CA 95834.**