

Morning Workshops

Title: Tips for Taking and Passing Wastewater Certifications – Grades 1 thru 5

Scheduled Class Time: 9 a.m.-10 a.m.

Description: This presentation will give attendees some idea of what type of problems they should expect to see on wastewater certification exams, Grades 1-5, as well as tips for test preparation and test taking techniques including:

- What type of problems one could expect to see on the wastewater certification exams, Grades 1 thru Grade 5
- Study habits
- Resources and classes one can take
- Testing Taking techniques
- Time management during the exam
- What to expect at the testing center
- What to bring to the test taking center
- Rules to follow when taking certification exams

Instructor: Levi Fuller, Operations Supervisor, Dublin-San Ramon Services District

Title: Advanced Metering Infrastructure (AMI)

Scheduled Class Time: 9-10 a.m.

Description: This AMI workshop will provide insights into current AMI initiatives, a description how AMI impacts other business functions, meter technology that is used at EBMUD, and considerations for our business case for a full system AMI deployment.

Instructor: Dave Wallenstein, Manager, East Bay Municipal Utility District

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement - Mechanical Technologist, Electrical/instrumentation Technologist Electrical/Instrumentation Technology

SWRCB contact hour: 1 Hour

Title: Competency Standards

Scheduled Class Time: 9-11 a.m.

Description: Gwinnett County is located 35 miles northeast of Atlanta, GA with an area of 437 square miles and population of 940,000. Within the next several years, the counties' Department of Water Resources will have a significant percentage of its current workforce eligible to retire. This challenge is amplified by the increasing rate of technological advancements and strong competition for highly skilled workers. Therefore, innovative ways to develop the workforce was strategized and implemented. This class will discuss the competency standards and the systems that were created to ensure staff has the knowledge skills and abilities needed.



Instructor: Frank Loethen, Section Manager, Training and Development, Department of Water Resources, Gwinnett County Government, Georgia

CWEA contact hour: 2 Hours, Approved Training for CWEA Re-Certification Requirement, all vocations

Title: Competency Standards Panel Discussion

Scheduled Class Time: 11a.m.-noon

Description: The panel below will discuss competency standards, giving examples and taking questions from the audience.

Instructors: Frank Loethen, Section Manager, Training and Development, Department of Water Resources, Gwinnett County Government, Georgia; Steve Miksis, Ross Valley Sanitary District; Greg Norby, Assistant General Manager, Wastewater Enterprise, San Francisco Public Utilities Commission; Alex Rodriguez, Wastewater Operations Superintendent, City of San Jose.

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement, all vocations

Title: Insights in Infrastructure Engineering

Scheduled Class Time: 9 - 11 a.m.

Descriptions:

Fleet Maintenance Facility Upgrade - To reduce operational costs, EBMUD acquired an existing repair facility located in Walnut Creek which require numerous upgrades. A two-phase project approach was developed to expedite a partial move-in under the first project phase while addressing long-term needs under a second project phase. This presentation will focus on project aspects of both phases.

Central Reservoir Replacement Project – EBMUD will replace its largest distribution reservoir, the 154-million-gallon Central Reservoir in Oakland. The presentation will give background on the reasons for replacing the reservoir, the community outreach process, and the engineering challenges.

Chabot Dam Seismic Upgrade - Chabot Reservoir is a 10,350-acre foot raw water storage facility operated by EBMUD in Alameda County. Based on seismic hazard studies performed by EBMUD, the State Division of Safety of Dams (DSOD) directed EBMUD to implement a seismic upgrade to the dam and outlet works. Completion of this project that began in 2014 and ended in October 2017 enhanced the safety of Chabot Dam which allows EBMUD to capture and attenuate a substantial amount of stormwater runoff and sediment that would otherwise flow uncontrolled into San Leandro Creek and the San Francisco Bay.

Instructors: Elizabeth Bialek, Engineering Manager, Tim Fuelle, Associate Civil Engineer, Aaron Hope, Civil Engineer, Tom Boardman, Associate Civil Engineer, East Bay Municipal Utility District

CWEA contact hours: 2 Hours, Approved Training for CWEA Re-Certification Requirement - Collection System Maintenance, Mechanical Technologist, Electrical/instrumentation Technologist
Electrical/Instrumentation Technology



Title: Tips for Taking and Passing Water Certifications – Grades 1 - 5

Scheduled Class Time: 10-11 a.m.

Description: This presentation will give attendees some idea of what type of problems they should expect to see on water certification exams, Grades 1-5, as well as tips for test preparation and test taking techniques including:

- What type of problems one could expect to see on the water certification exams, Grades 1 thru Grade 5
- Study habits
- Resources and classes one can take
- Testing Taking techniques
- Time management during the exam
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- What to bring to the test taking center
- Rules to follow when taking certification exams

Instructor: Dan Martin, Water Distribution Supervisor, Dublin-San Ramon Services District

SWRCB contact hour: 1 Hour

Title: Overview of Pollution Prevention in the Wastewater Industry

Scheduled Class Time: 10-11 a.m.

Description: The Bay Area wastewater industry is a national leader in pollution prevention (P2). Come and learn about how P2 efforts have evolved among Bay Area wastewater agencies and beyond. Also learn about Central San's P2 Program, recent developments in the policy realm that were driven by P2, and why P2 continues to be critical with potable reuse looming in the future.

Instructors: Melody LaBella, Resource Recovery Program Manager and Colleen Henry, Senior Environmental Compliance Inspector, Central Contra Costa Sanitary District (Central San)

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement - Environmental Compliance Inspector

SWRCB contact hour: 1 Hour

Title: Harmful Algal Blooms (HABS) Monitoring using the Enzyme-Linked Immunosorbent Assay (ELISA) and Screening Technologies

Scheduled Class Time: 11a.m.-noon

Description: The ELISA is a commonly used solid-phase enzyme immunoassay (EIA) technique for detecting the presence of proteins with antibodies. Historically, the ELISA has been used in the medical industry to detect various human diseases, but with the recent increase in toxic algal blooms, it can be utilized as a tool for water managers to detect HABS. Santa Clara Valley Water District (SCVWD) is



currently using this technique to detect HABs in our reservoirs and treated water. This presentation includes additional HABs screening technologies coupled with the ELISA that SCVWD currently uses as part of their Cyanotoxin Response Plan.

Instructor: Katie Vigil, Microbiologist III, Water Quality Lab, Santa Clara Valley Water District

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement - Laboratory Analyst only

SWRCB contact hour: 1 Hour

Title: Wastewater Treatment to Resources Recovery

Scheduled Class Time: 11a.m.-noon

Description: Across the United States, municipal wastewater plants are transitioning from waste treatment to resource recovery. This workshop will cover how cities like San Francisco are capturing, upcycling, and reusing urban organics to develop non-potable water supplies, nutrient-rich fertilizers, soil conditioners, and energy. Also discussed will be how these efforts are helping communities become more sustainable, more self-sufficient, and more resilient in the face of global challenges like climate change and scarcity of resources. The workshop will examine how these new fields are bridging scientific research and private sector innovation with new municipal job opportunities in urban planning, trend analysis, instrumentation and control, and system optimization.

Instructor: Manon Fisher, Resource Recovery Specialist, San Francisco Public Utilities Commission

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement - Environmental Compliance Inspector

Title: Assessing Regional Workforce Needs: Water and Wastewater Career Pathways Report

Scheduled Class Time: 11 a.m.- 12 p.m.

Description: In 2017, BAYWORK and JVS (Jewish Vocational Service) partnered to develop a regional assessment of water and wastewater workforce needs in the Bay Area. Over 40 agencies participated in the study and results have been shared nationally as a model for assessing labor needs and developing career pathways to the industry. Come to this session to learn about the partnerships, approach, and key components that made this research effort successful. This workshop will cover how BAYWORK continues to implement the recommendations that came out of this study and how the study was incorporated into the new BAYWORK Business Model.

Instructor: Lisa Beem, Senior Workforce Analyst, San Francisco Public Utilities Commission and Lisa Countryman, Vice President of Planning and Program Development, Jewish Vocational Services

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement, all vocations



Afternoon Workshops

Title: Lessons Learned from Operating a Membrane Plant

Scheduled Class Time: 1-2 p.m.

Description: The Silicon Valley Advanced Water Purification Center is the largest of its kind in Northern California. It's been online since March 2014 and utilizes membrane technology to purify wastewater to near-distilled quality. In this class, you will hear a few of the lessons learned from maintaining and operating its complexed system.

Instructor: Kris Filice, Advanced Recycled Water Plant Supervisor, Santa Clara Valley Water District

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement - Mechanical Technologist, Electrical/instrumentation Technologist Electrical/Instrumentation Technology

SWRCB contact hour: 1 Hour

Title: San Francisco Public Utilities Commission's Local and Regional Groundwater Projects

Scheduled Class Time: 1-2 p.m.

Description: Introduction of local and regional groundwater projects, San Francisco Groundwater Supply Project, and Regional Groundwater Storage and Recovery Project. These are new water supply sources that include new facilities and require treatment for delivery of potable water.

Instructor: Kelley Capone, Groundwater Program Manager, Water Resource Division, San Francisco Public Utilities Commission

SWRCB contact hour: 1 Hour

Title: Pump Utility Maintenance Program (PUMP) –Vibration Monitoring and Pump Rebuilds

Scheduled Class Time: 1-3 p.m.

Description: This training seminar will cover the principles and process applied to assess the condition of SCVWD's critical pumps and the coordination that takes place to rebuild them. The district uses vibration data as one of the tools to monitor and rank the condition of critical water treatment plant pumps. Pump rebuild standards, process and the roles assigned to district staff, such as Asset Management, Maintenance, Field Operation Administrators, Mechanical Engineering, Electrical Engineering, Purchasing and Contractors will also be discussed.

Instructor: Luz Penilla, Associate Engineer, District-Wide Asset Management, Santa Clara Valley Water District

CWEA contact hours: 2 Hours, Approved Training for CWEA Re-Certification Requirement - Collection System Maintenance, Environmental Compliance Inspector, Mechanical Technologist,



Electrical/instrumentation Technologist Electrical/Instrumentation Technology, Industrial Waste Treatment, Plant Operator

SWRCB contact hours: 2 Hours

Title: Interviewing Skills & Techniques to Help Achieve your Career Goals

Scheduled Class Time: 1-2 p.m.

Description: Help your employees prepare themselves to successfully compete for promotions within your organization, from filling out the job application to making a best impression in the interview. Our overview provides a strategic guide in preparing to competitively interview for positions when competing against fellow employees and outside applicants. We cover the basics, such as understanding the purpose of interviews, to key skills such as conducting a self-assessment, anticipating questions, and forming organized, thoughtful responses. We advise against the common interview mistakes, provide tips and strategies, and suggestions to help practice so they will be ready for that big opportunity. This workshop is designed for all water and wastewater staff.

Instructor: Peggy Donatelli, Recruitment Program Administrator, Debra Williams, Recruiter, Dolores Grissom, Recruiter, Santa Clara Valley Water District

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement, all vocations

Title: Best Communication Practices for Proposition 218 Notices and other Communication Practices

Scheduled Class Time: 2-3 p.m.

Description: This presentation provides a step-by-step process on how best to put together an engaging and successful Proposition 218 notice and other communication practices, including organizing events, creating videos, and so much more.

Instructor: Emily Barnett, Communications and Intergovernmental Relations Manager, Central Contra Costa Sanitary District

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement, all vocations

Title: Open Forum – Drinking Water and Wastewater Operator Certification Programs

Scheduled Class Time: 2-3 p.m.

Description: This is an *interactive* discussion between state representatives, operators, supervisors, owners of drinking and wastewater systems, and water industry associations. Assembly Bill (AB) 2890 was initiated to better align the Drinking Water and Wastewater Operator Certification program. The bill was passed into law and will be effective 1/1/2017. Any issues with AB 2890, concerns of the future of the operator certification programs will be discussed. This forum is for anyone working in the water industry.

Instructor: Annette Caraway, State Water Resources Control Board, Office of Operator Certification

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement, all vocations

SWRCB contact hour: 1 Hour



Title: Managing Culture Change: A Proactive Approach to Address Workforce Changes

Scheduled Class Time: 2-3 p.m.

Description: Since 2010, over 664 of East Bay Municipal Utility District's 1,800 employees have retired, and an additional 300+ employees are currently retirement eligible. In situations like this we are most familiar with the challenges and necessities of capturing essential knowledge, but what is sometimes missed is the loss of organizational culture and the effect it has on employee engagement and performance. This workshop will review EBMUD's approach to implementing a values and organizational improvement process, intended to facilitate the assimilation of new talent and engaging existing employees in building a high performing culture to carry out the organization's mission.

Instructor: Derry Moten, Manager of Employee & Organizational Development, East Bay Municipal Utility District

CWEA contact hour: 1 Hour, Approved Training for CWEA Re-Certification Requirement, all vocations

