



STATEWIDE WASTEWATER OPERATOR TRAINING CENTER
STATE DEPARTMENT OF HEALTH
HONOLULU, HAWAII

TRAINING SESSION ANNOUNCEMENT
320 MEMBRANE BIOREACTORS (ADVANCED)

County: City and County of Honolulu
Location: Statewide Wastewater Operator Training Center
1350 Sand Island Pkwy
Dates: **May 13, 14 and 15, 2014**
Times: 8:00 a.m. – 11:00 a.m.
Lunch (11:00 a.m. – 12:00 p.m.)
12:00 p.m. – 3:00 p.m.
Ends at Noon on the 15th
Audience: Operators
Educational Point: 2 CEU
Instructor: Roger Babcock
Prerequisite: *Course #210 or Vol I of Ken Kerri's course*

COURSE DESCRIPTION

This 2.5 day course covers operation and control of membrane bioreactor activated sludge systems (MBRs) and includes site visit to a working MBR. The course will cover describe theory and mechanisms, show designs and design parameters, give expected performance removals, work sample calculations, describe system start-up, operation, maintenance, and troubleshooting. The course will be part discussion about how processes work and relative advantages/disadvantages of different systems, and part visual observation of all the components of an operating MBR treatment system. The tour will include observation of fine screens, anoxic tanks, aeration tanks, membrane units, pumping and aeration systems, PLCs and user interface along with emphasis on process inputs, start-up, normal operations, process upsets and troubleshooting, maintenance cleaning and recovery cleaning of membranes.

REGISTRATION (*Classes are subject to **cancellation if less than three registrations** are received by the deadline.*)

1. State and County Wastewater Treatment Plant Personnel: **TUITION: Free**
Please register as soon as possible by sending the registration form through your immediate supervisor. Supervisors will forward all registration forms to the Administrator of the Statewide Wastewater Training Center.
2. All Other Non-Municipal and Non-Wastewater Employees: **TUITION: \$165**
Please forward your registration form and check or money order payable to: State Department of Health.

Mail to:

Administrator, Statewide Wastewater Operator Training Center
State Department of Health
919 Ala Moana Blvd., Room 309
Honolulu, Hawaii 96814

Deadline*: May 6, 2014

** Registration and Payment*

EQUAL OPPORTUNITY

Any disabled person requiring special needs will be accommodated. Any disabled person requiring special assistance should contact the Administrator at 586-4294 or fax 586-4300.