



STATEWIDE WASTEWATER OPERATOR TRAINING CENTER
WATER RESOURCES RESEARCH CENTER, UNIVERSITY OF HAWAII
HONOLULU, HAWAII



TRAINING SESSION ANNOUNCEMENT
215 PLANT SCIENCES (PHYSICS)

County: County of Hawaii - Kona
Location: Hawaii Water Service Company Baseyard
1 Quarry Road, Waikoloa HI
Dates: **May 16 - 17, 2018**
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.
Audience: Operators and Maintenance Personnel
Educational Point: 1.0 CEU
Instructor: Ron Hay

COURSE DESCRIPTION

This course consists of four major subject areas: Science Fundamentals, Properties of Matter, Heat and Process Dynamics. Plant Science #1 - Science Fundamentals cover some basic scientific principles and their applications in a process facility are introduced here, along with units of measurement for length, time, mass, pressure, temperature, flow, and level. The relationship between force and motion, the laws that apply to force and motion, the definition of work, and the relationship of work to energy are also covered. Plant Science #2 - Properties of Matter focuses on the properties of matter associated with solids, liquids, and gases, and demonstrates how these properties influence process system operation. The unit defines and explains mass, weight, density, specific gravity, buoyancy, viscosity, elasticity, and other terms associated with the effects of stress, pressure, and temperature on the three states of matter. Plant Science #3 - Heat teaches the principles of heat transfer. The relationship between temperature and thermal energy, and the effects of temperature difference on heat transfer. Sensible heat, latent boiling temperatures are covered. Plant Science #4 - Process Dynamics introduce the principles and operating characteristics of liquid, gas, and vapor systems by describing the main parts of a fluid system and the effects of pressure related to static fluids and steady-state flowing fluids.

REGISTRATION

- County Wastewater Treatment Plant Personnel: **TUITION: Free**
Please submit an application form to your supervisor for approval and then fax/email to the Statewide Wastewater Training Center.
- All Other Non-Municipal and Non-Wastewater Employees: **TUITION: \$110**
Please mail application form and tuition directly to the Statewide Wastewater Training Center. Check payable to: RCUH.

Mail to: Statewide Wastewater Operator Training Center
University of Hawaii, water Resources Research Center
2540 Dole Street, Holmes Hall 283
Honolulu, Hawaii 96822

Fax: 808-956-5014 Email: uhwwtrainingcenter@gmail.com

Deadline: May 14, 2018

EQUAL OPPORTUNITY

Any disabled person requiring special needs will be accommodated. Any disabled person requiring special assistance should contact the Administrator at 956-7298 or uhwwtrainingcenter@gmail.com.