

Activated Sludge Process Control for Grade 3-5 Exam Preparation

Wednesday, March 25, 2009
John E. Dority Safety & Performance Training Center, Maine DOT
Fairfield, ME
8:30 a.m. - 3:30 p.m. (Sign-in begins at 8:00 a.m.)



The activated sludge process can successfully be controlled using a minimum number of tests. These include sludge settleability, sludge concentration, oxygen uptake, microscopic examination, and clarifier blanket depth. The results obtained from these tests help the operator know the quality and quantity of activated sludge in the system. In this course, participants will learn how to apply the results of the various tests to determine aeration levels and rates for sludge return and wasting.

The morning session will include descriptions of the tests and how to use the results to determine process control changes. In the afternoon, actual demonstrations of the tests will show participants how the tests are properly conducted and applied. There will be demonstrations of new testing equipment that simplifies some of the tests and provides faster results for process control decisions.

The following tests will be demonstrated, with an explanation of how to use the results:

- o Settleometer
- o Determination of Sludge Concentration
- o Oxygen Uptake Rate (OUR) and Specific Oxygen Uptake Rate (SOUR)
- o Clarifier Blanket Depth and Sludge Concentration
- o Microscopic Examination and Sludge Quality
- o Oxidation-Reduction Potential (ORP)

Instructors: Richard Darling, P.E., Ken Jones & Don Albert, Maine DEP

Cost: \$95

Registration Deadline 3/18/2009

Credits: 6 Training Contact Hours
Approved for Wastewater Operators

Course #: J0934

Registration Form

Course Title _____ Course # _____

Name _____

Company/Facility _____

Street _____

City/Town _____ State _____ Zip _____

Telephone _____ Fax _____

E-mail _____

WW Operator # _____ DW Operator # _____

Indicate method of payment **Amount Enclosed \$** _____

Check No. _____ or PO No. _____ or Credit Card _____
indicate Visa, MC or Discover

Credit Card # _____

3-digit code (Visa only) _____ Expiration _____
located on back of card month/year

Name on Card _____

Signature Required _____ Date _____

Mail Form and Payment to:
JETCC - PO Box 487; Scarborough, ME 04070-0487
Or fax with a purchase order to: 207/771-9028 or call 207/253-8020

PLEASE NOTE: Enrollment is on a first-come, first-serve basis, so please return your application as soon as possible. Due to limited classroom space and the popularity of certain subjects, we often reach capacity. We appreciate you taking time to notify us if you cannot attend a course for which you have registered. This makes a big difference to someone else who requires the training.
THANK YOU!

• **Checks/Money Orders:** Should be made payable to "JETCC. **Note:** There is a \$15 fee for checks returned due to insufficient funds.

• **Registration Deadline:** Please note registration deadline above. Registrations after this time will incur a \$15 late fee.

• **Cancellations/No Shows:** If you must cancel, four working days notice is required. Cancellations received after this time will be charged \$20 for full-day programs and \$10 for half-day programs. Registrants who do not cancel or who fail to show are responsible for full payment.

• **Credits:** Participants must attend ALL hours of training to be eligible for Training Contact Hours. TCHs are awarded upon completion of a course.

• **TCH's:** This course is approved for wastewater license-renewal training contact hours.

• **Use one form per course.** Photocopy this page to apply for multiple courses.