



Advanced Activated Sludge Process Control

April 24 and 25, 2012
DENVER

One time only!!!!



TU APPROVED
Class Size Limited
to 25 Attendees



INDIGO
WATER GROUP

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Indigo Water Group
626 West Davies Way
Littleton, Colorado 80120

To Register: Call 303.762.6076, mail in the enclosed registration form, FAX to 303.484.3304, or register on-line at www.indigowatergroup.com Mail payment by check or pay on-line by credit card.



About the Trainer

Eric Wahlberg is a rare breed: operator, engineer, and PhD rolled up into one. His math for operators course has been a highly attended offering at the Tri-State Conference for more than six years.



Public Works identified Eric as a 2008 Trendsetter for his work in activated sludge process control and the tests he has developed over the years. He has written and presented extensively and is a nationally renowned expert in activated sludge process control.



Indigo Water Group

Indigo Water Group is a small, woman-owned business in Littleton, Colorado that specializes in water and wastewater treatment. We offer a wide range of services from utility plans to specialized on-site training to assistance with laboratory and water/wastewater operations to collection system and process modeling.

Visit our website to download our **FREE** math workbooks and **FREE** sample study questions for the certification exams.

New! Free math videos.



**ADVANCED ACTIVATED SLUDGE
PROCESS CONTROL AND
OPTIMIZATION**

COURSE AGENDA

HOW TO REGISTER

Please join us this spring for the NEW Two-Day Activated Sludge Process Control and Optimization course. Indigo Water Group and Wastewater Technology Trainers have teamed up to create a two-day activated sludge process control class. Like our popular Exam Cram, this two-day course is loaded with great information.

Training Units for the full 2 day course have been **APPROVED** by the State of Colorado: Approval number 12-OS-0078.

Classes are limited to 25 attendees each.

TRAINING UNITS					
	W	WW	I	C	D
Day 1		0.73	0.73		
Day 2		0.72	0.72		
Total		1.45	1.45		

LOCATIONS

DENVER **Hotel VQ**
April 24-25, 2012 **1975 Mile High Stadium Cr.**
 303-433-8331

WHO SHOULD ATTEND?

This course is geared toward A and B level operators. The objective is to give front-line supervisors and operators a more in-depth understanding of the activated process. With improved understanding, effluent quality variability and energy use can be reduced.

WWTP Overview

Primary Treatment and Impact on Activated Sludge

Introduction to Activated Sludge

Aeration Basin

Fate of organic carbon

Converting solubles to particulates

Meeting process objectives

Factors affecting conversion processes

Secondary clarification

Factors Affecting Sludge Quality

Mixed liquor DO concentration

Mixed liquor concentration

Biological growth rate

Solids retention time

Difference between process troubleshooting and process control

Nitrogen Removal

Ammonia

Nitrate

Phosphorus Removal

Energy, Self-Sufficiency, and Optimization

Adjusting Process Variables

RAS, WAS, air flow, SRT

Clarifier operation

*For an in-depth outline, please visit
our website at*

<http://www.indigowatergroup.com>

Registration may be done by mailing in the attached form, faxing, by telephone, or through our website at www.indigowatergroup.com We accept major credit cards through our website or checks by mail.

Registration fee is **\$395 per person**. A light breakfast, lunch, and afternoon snack break, are included. Seminars are scheduled to start at 8:30 am and run until 5:00 or 5:30 pm for a 1.45 training units approved by the State of Colorado. The seminar schedule includes 45 minutes for lunch and two 15 minutes breaks.

Please include \$395 for each attendee

Attendee: _____

e-Mail: _____

Attendee: _____

e-Mail: _____

Attendee: _____

e-Mail: _____

Company: _____

Address: _____

City: _____

State: _____

Zip: _____

Telephone: _____

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