

#978

Biological Nutrient Removal in the Activated Sludge Process

5.5 WASTEWATER CONTACT HOURS

The course provides an in-depth review of the bacteria, operational conditions and biological principles that influence nitrification, denitrification and biological phosphorus removal. The course also provides biological, chemical and physical measures for monitoring and regulating BNR for permit compliance, process control and cost-effective operation. Required, desired and accidental occurrences of nitrification and denitrification are presented. Troubleshooting and correctiveness measures for accidental nitrification and denitrification also are presented.

Topics to be covered:

- Biological principles of nitrification
- Nitrogenous wastes and their impact upon the treatment process
- Benefits of denitrification
- Oxic, anoxic and anaerobic respiration

July 23, 2019

Holiday Inn
 100 Pine Street
 Williamsport, PA 17701
Lycoming County

Class Time: 8:00 am - 3:30 pm
Registration: 7:30 am
Lunch and materials provided with your registration

Instructor: Michael Gerardi
Wastewater Microbiologist

Questions?
 Call 800-653-7792 ext. 107 or 108
 Or email: Training@PRWA.com
WE HOPE TO SEE YOU THERE!

THE PRWA PROMISE

If you're not 100% satisfied with the training class for any reason, we will give you a refund!

WWW.PRWA.COM/PROMISE

Attendance cost per person:
 \$195 for PRWA Members
 \$230 for Non-Members

PRWA Member? Yes No

July 23, 2019

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Location:

Holiday Inn
 100 Pine Street
 Williamsport, PA 17701
Lycoming County

Name: _____ PA-DEP Client ID (if applicable): _____

System/Company: _____ Phone: _____

Address: Home System Fax: _____

City _____ State: _____ Zip: _____ Email: _____

PAYMENT:

Check (payable to PRWA)

Invoice Me: Home System

Credit Card: AmEx Discover Visa MasterCard

Card Number: _____

Exp Date (mm/yy): _____ CVC (3 or 4 Digit # on card): _____

Name on Card (Please print): _____

Signature: _____

Amount Due:
 \$ _____

To register by FAX or MAIL:

FAX: 814-353-9341

MAIL: 138 W. Bishop St., Bellefonte PA 16823

EMAIL: TRAINING@PRWA.COM

EMAILING REGISTRATIONS: EMAIL IS INHERENTLY INSECURE. CREDIT CARD INFORMATION SHOULD NOT BE EMAILED OR SENT IN AN ATTACHMENT.

Questions?

Call 800-653-7792 ext. 107 or 108

Signature shown on card

MEET THE INSTRUCTOR



Michael Gerardi

Wastewater Microbiologist

Michael has developed and offered numerous wastewater biology courses in the United States, Canada, Caribbean and Europe. He has over 35 years experience in the wastewater treatment profession and has authored seven wastewater microbiology texts for John Wiley and Sons. He has performed microscopic analyses of wastewater samples and provided troubleshooting services for numerous municipal and industrial wastewater treatment facilities. He managed the Williamsport Sanitary Authority wastewater treatment facilities for 10 years.

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Lycoming County**

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CONTACT HOURS**

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