

# #887 Wastewater Operator Math

## 6 WASTEWATER CONTACT HOURS

Review the math calculations a wastewater operator would need to properly operate and maintain a treatment facility. Since these operations are used on a daily basis, an operator can forget how to calculate those important equations needed for proper operation. Most of the math problems reflect practical situations encountered by operators.

### Topics to be covered:

- Circumference, Perimeter, and area
- Volume, Flow, and Detention Time
- Percentages, Pressures, Head, Dosages, and Horsepower
- F/M Ratio, Sludge Volume Index, and Solids Loading Rates
- Hydraulic and Organic Loading Rates and Sludge Age

# January 16, 2019

**Hotel Anthracite**  
25 South Main Street  
Carbondale PA, 18407  
**Lackawanna County**

**Class Time:** 8:00 am - 3:30 pm

**Registration:** 7:30 am

*Lunch and materials provided  
with your registration*

**Instructor: Tom Goehring**  
*Wastewater Technician*

### 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:**  
\$95 for PRWA Members  
\$130 for Non-Members

**PRWA Member?**  Yes  No

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: \_\_\_\_\_

**January 16, 2019**

**#887 - Wastewater Operator Math**

### Location:

**Hotel Anthracite**  
25 South Main Street  
Carbondale PA, 18407  
**Lackawanna County**

**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.

Amount Due:  
\$ \_\_\_\_\_

### Questions?

Call 800-653-7792 ext. 107 or 108

*Signature shown on card*

## MEET THE INSTRUCTOR



**Tom Goehring**  
*Wastewater Technician*

Tom is a Wastewater Technician. Tom started in the wastewater field in 1994 performing plant operations, laboratory DMR and process control testing, and collection system management until 2008. He then began work with the State of West Virginia assisting utilities with proper managerial and financial procedures until he returned to Pennsylvania and joined PRWA as a wastewater technician in 2013. He currently holds a Class A wastewater license in Pennsylvania and a Class IV wastewater license in West Virginia.

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Lackawanna County**

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**pa rural water**  
*Association*

138 West Bishop Street  
Bellefonte, PA 16823  
800-653-7792

**WWW.PRWA.COM**

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**pa rural water**  
*Association*