



615-900-1000

# Granular Media Filter Operations and Optimization

3 day

CE: 12 hrs any WT

OE 3 mos any WT

This 3-day session is designed to equip the learner with the information and skills needed to operate a granular media filter, comply with all monitoring and reporting requirements including, CN1196 - Individual Filter Turbidity Exceedance Report, CN1200 - Interim Enhanced SWT Rule Form, and the Daily Operations Report. In addition, basic filter troubleshooting skills will be taught. Learners will perform an evaluation of granular media filter operations. Analyses include mudball analysis, backwash water turbidity analysis, and a sludge retention profile. In addition learners will probe the filter bed for gravel displacement, and develop a map for the gravel media. The first day the learners will perform the tests under supervision.

**Cost:** \$260 TAUD Members  
\$520 Non Members

**Time:** 8:30 am -4:00 pm

### What topics will be covered?

- determine and optimize filtration rate, backwash rate, media depth, and bed expansion
- how to inspect for mudballs and determine their volume
- evaluate media effective size and uniformity coefficient
- perform a sludge retention profile
- disinfect a filter after evaluation and prepare a report and recommendations for filter optimization

**Instructor(s):** John Shadwick, Technical Trainer

### Questions:

John Shadwick  
[johnshadwick@taud.org](mailto:johnshadwick@taud.org)  
615-804-4069

### Class Date/ Location:

- 3/13-15 Kingsport  
 10/16-18 Cookeville

Kingsport  
2436 Sherwood Road  
Cookeville  
1860 South Jefferson Ave.

### Submit with payment to:

**TAUD Training Station**  
**P.O. Box 2529**  
**Murfreesboro, TN 37133**  
**Fax: 615-898-8283**

*We accept VISA, AMEX,  
Discover & MasterCard*

ONE REGISTRANT PER PAGE

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Credit Card #: \_\_\_\_\_ Amount: \$ \_\_\_\_\_

Exp Date: \_\_\_/\_\_\_/\_\_\_ Card Holder Name: \_\_\_\_\_

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Zip: \_\_\_\_\_ Signature: \_\_\_\_\_

Fax # or email for receipt: \_\_\_\_\_

**REFUND POLICY:** Payment for the class is preferred in advance of the scheduled class date. If cancellation is necessary, refund requests submitted in writing (e-mail, fax or letter) will be processed as follows: 15+ days prior - Full refund less any materials mailed. 5 - 14 days - Half payment less any materials mailed. Less than 5 days - No refund - another person may substitute. **If payment has not been received**