

Tri-Con Operator Classes

WEDNESDAY 8:00am – 12:00pm, Room 210:

Basic Motor and Pump Maintenance

TRE Pending: All Operators (Non-Process) 3.5 hours

Instructor: **Bob Andrews**, Hills Industrial

Students will learn:

- How to read a motor nameplate
- Motor storage recommendations
- Basic systems considerations for motor/pump selections
- Proper basic installation requirements
- Startup and baseline information gathering
- Preventive, predictive, and reliability-based maintenance
- Relubrication of bearings
- Inspection and testing at prescribed intervals
- Motor storage tips and recommendations

WEDNESDAY 1:30pm – 4:30pm, Room 210:

Coagulation, Flocculation, Sedimentation and Filtration

TRE 6648-19-09: All WWT/All IWW/All WT Operators (Process) 3 hours

Instructor: **Eddie Cope**, Anne Arundel County

Designed to assist water plant operators, this advanced course focuses on tracking the flow of water through the four fundamental chemical/physical processes in water treatment. Participants will examine chemical reactions, the physical event of each process, and the plant equipment involved. Instruction and practice in solving typical operational and mathematical problems associated with these treatment functions will also be covered. (This course has received TRE certification for both water and wastewater operators because some wastewater treatment plants may employ one or more of these processes). *Each participant should bring a calculator to this class.*

THURSDAY 8:30am – 12:30pm, Room 210:

Advanced Wastewater

TRE Pending: All Operators (Process) 3.5 hours

Instructor: **Bill Shreve, Sr.**, MCET and KCI Technologies

Students will learn:

- Introduction/Background
- Nutrient impacts, Regulations
- Chemical processes for Nitrogen
- Biological processes for Nitrogen & Phosphorus
- Filtration Processes
- Groundwater Discharge Systems
- Membrane Systems

THURSDAY 2:00pm – 5:30pm, Room 210:

Process Math for Operators

TRE 6649-19-09: All Operators (Process) 3 hours

Instructor: **Scott Harmon**, Trainer

This session will focus on mathematics and application fundamentals of the water and wastewater treatment industry. This class will focus on using math to, understand water treatment processes. Upon completion of this course, personnel should be able to perform calculations needed to verify various plant processes. Examples include chemical dosing, detention time, pressure backwash flow rates and horsepower pump rates.