

# Environmental Training



Corporate and Community Programs

Aug. 2010 - Jan. 2011  
PROGRAMS INSIDE!



DELAWARE  
TECH

## HIGHLIGHTS:

### ATTENTION ONSITE OPERATORS

Onsite training day. Get 10 Hours for \$154 in one Day  
this December. See page 32 for details.

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## Environmental Training at Delaware Tech. . .

The mission of the Environmental Training Center (ETC) at the Owens Campus of Delaware Technical & Community College is to provide applicable classroom training and technical assistance to Delaware's environmental workforce.

Classroom training consists of credit and non-credit programs for onsite technicians, well drillers, and water and wastewater operators. Included in the non-credit programs are courses that prepare operators to successfully complete the state's rigorous licensing examination. After operators receive their licensure, the ETC provides on-going continuing education classes and seminars.

## Credit and Non Credit Courses!

**Delaware Technical & Community College**  
Corporate and Community Programs, ETC  
Jack F. Owens Campus  
P.O. Box 610  
Georgetown, DE 19947  
302-855-5900  
[www.dtcc.edu/owens/ccp/environmental](http://www.dtcc.edu/owens/ccp/environmental)

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**On the Cover:** Students in the Basic Electricity for Operators Class.

## Regulatory Course Approvals

- Chart includes courses offered during the current semester on all Delaware Tech campuses.
- Regulatory approvals listed here are for the State of Delaware only.
- Specific details for Del., Md., N.J., & Va. regulatory course approvals are listed

	Hours	Water	Wastewater	Well	Onsite
21st Century Drinking Water Corrosion Control—11	7	•			
21st Century Principles of Water/Wastewater Liquid Chlorination and De-Chlorination—22	7	•	•		
21st Century Ultra Violet Disinfection—36	7	•	•		•
Activated Sludge—14	6		•		•
Alternative Energy Sources for Water & Wastewater Facilities—31	7	•	•		•
Asset Management Program Basics—28	4	•	•		
Base Level Water Operators Course—34	56	•			
Basic Electricity for Operators—20	7	•	•	•	•
Basic Microscopy for Wastewater Operators—19	7		•		•
Budgeting for Small Utilities—17	4	•	•		
Capital Improvements Planning & Long Term Water & Sewer Capacity—25	4	•	•	•	
Care and Feeding of Septic Systems—32	4		•		•
Chasing The Thermal Demons—11	7	•	•		
Chlorination Disinfection Science—34	7	•	•		
Chlorination Technology—23	7	•	•	•	•
Chlorine Dioxide Disinfection in the Water/Wastewater Process—34	7	•	•		
Collection Systems Short Course—29	14		•		•
Collection System Troubleshooting—23	7		•		•
CUPSS Software Training (Check Up Program for Small Systems)—32	4	•	•		
Customer Relations for Environmental Technicians—29	7	•			•
Delaware's Hydrogeology and the Rocks and Fossils of the Mid-Atlantic	7	•		•	•
DOT Regs Review for Pumpers—24	3				•
Driving the False Impressions Out of Your Water System—33	7	•			
Effective Water Distribution System Flushing—33	7	•		•	
Electrical Blueprint Reading for Operators—17	7	•	•	•	•
Electrical Safety for Water & Wastewater Operators—16	7	•	•		•
Electrical Troubleshooting for Operators—28	7	•	•	•	•
Evaluating Financial Capacity—15	4	•			
Excavation—15	6	•	•		•
Excel Basics for Operators—22	7	•	•		•
Filtration Systems - Municipal, Industrial & Irrigation—12	3		•		•
Fire Hydrant Operation & Maintenance—35	7	•			
Five Common Sense Practices for Better Water/Wastewater Operations	7	•	•		
Fundamentals of Septic Filtration and STEP Systems—16	7		•		•
Geographic Information Systems (GIS)Using ARC View—8	48	•	•		•
Getting the Most out of Your Treatment and Storage Lagoon—14	3	•	•		•

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	Hours	Water	Wastewater	Well	Onsite
Global Positioning Systems—20	7	•	•	•	•
Hydraulics and Hydrology—6	64	•	•		•
Innovative & Alternative Onsite Systems—30	7		•		•
Inspection Onsite WW Systems—30	7		•		•
Introduction to Environmental Science & Tech—6	48	•	•		•
Intro to Mapping and GIS for Operators—18	7	•	•		•
Intro to SCADA—31	7	•	•		•
Intro to Variable Frequency Drives (VFD)—30	7	•	•		•
Lift Stations—16	7		•		•
Management Systems Approach to Improve Water and Wastewater Facility Operations—24	7	•	•		
Managing Fatty Waste in Collection Systems and Lift Stations—18	6		•		•
Managing Side Stream Discharges—13	4		•		•
Math Review for the Maryland & Virginia Wastewater Exam and Advanced Math for Delaware Operators—29	7		•		
Math Review for the Maryland & Virginia Water Exam and Advanced Math for Delaware Operators—29	7	•	•		
Math Review for Wastewater Operators—32	6		•	•	•
Math Review for Water Operators—30	6	•		•	•
Membranes and Fluoridation Technologies—20	7	•			
NFPA 70E 2009 Standard for Electrical Safety in the Workplace—18	7	•	•		•
NICET Water and Sewer Pipeline Certification Course—10	35	•	•		
Onsite 101—27	7		•		•
Onsite Control Systems—13	7		•		•
Onsite Disposal System Hydraulics—12	7		•	•	•
Onsite License Preparation Course (H)—7	21		•		•
Onsite Wastewater Treatment and Disposal Systems—31	3		•		•
Operation & Maintenance of Solar Energy Systems for Operators—20	7	•	•		
Operation & Maintenance of the American Manufacturing “DRIP” Irrigation System—10	3		•		•
Operation & Maintenance of the Bio-Microbics FAST Treatment Unit—24	3		•		•
OSHA (1926) Construction Safety Course—9	12	•	•		•
Pipeline Assessment Certification Program—8	16	•	•		
Preparation for the Delaware Pump Installers and Well Drillers Exam—10	7	•		•	
Programmable Logic Controllers—8	36	•	•		•
Pump Fundamentals for Well Drillers—7	7	•		•	•
Pump Hydraulics—19	7	•	•		•
Pumps: Installation, Maintenance & Repair—19	7	•	•	•	•

# Regulatory Course Approvals

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	Hours	Water	Wastewater	Well	Onsite
Pumps: Motors & Controls—11	6	•	•	•	•
Replacement Onsite Systems—21	4		•		•
Respirator Usage/Lockout-Tagout Procedures/Permit Confined Space Entry—14	8	•	•		•
Risers, Baffles and Filters - Installation & Repair—21	4		•		•
Self Priming Centrifugal Pumps—24	7	•	•		•
Small Water Systems—13	7	•			
Soils—28	7		•		•
Soils Based Approach to Siting Wastewater Disposal—27	4		•		•
Submersible Pumps—23	7	•	•		•
Surface Water Treatment—36	7	•	•		•
Team Building—26	7	•			
Ten Little-Known Water/Wastewater Operators' Secrets—35	7	•	•		
The State Wastewater Exam "Hurricane" Review Level I—37	7		•		
The State Wastewater Exam "Hurricane" Review Levels II, III and IV—37	7		•		
Three Phase AC Power Workshop—24	7	•	•		•
Time and Project Management—30	7	•	•		•
Tips & Tools for 21st Century Water/Wastewater Process Monitoring—37	6	•	•		•
Tracking Water Movement through Doppler and Transit Time Flow Meters—22	3		•		•
Train the Trainer Designed for Collateral Duty Safety Personnel—15	7	•	•		•
Trenching/Shoring Safety—17	7	•	•		•
Troubleshooting Pumps—28	7.5	•	•	•	•
True Confessions of a Water/Wastewater Operator—12	7	•	•		
Utility Rate Setting & Cost Recovery—21	4	•			
Valves—21	7	•	•		•
Verifying the Water, Wastewater Process—26	7	•	•		
Wastewater Math 101—8	14		•		•
Wastewater Operator Certification Review, Level I—7, 33	48		•		•
Wastewater Operator Certification Review, Level II & III—7,35	48		•		•
Water Operator Certification Disinfection Course—10	30	•			
Water Operator Filtration Endorsement Course for Sand/Greensand Filtration, Reverse Osmosis, Ion Exchange, Activated Carbon—9	30	•			
Water Supply Hydrology, Sources and Water Conservation—25	7	•			
Water Treatment—6	64	•			
Water/Wastewater Operations for Elected/Appointed Public Officials—26	5	•			
Well Construction Techniques—9	7	•		•	
Well Grouting Fundamentals—26	7	•		•	

# CREDIT COURSES: ENVIRONMENTAL WATER/WASTEWATER TECHNOLOGY: OWENS CAMPUS

## Water Treatment

An in-depth survey of the processes, theory, application and operation of potable water treatment systems. Topics: theory and operation of mixing systems, coagulation chemistry, monitoring optimization of chemical application, flocculation, sedimentation, water filtration, disinfection, water softening, ion exchange, membrane processes and treatment plant instrumentation and control.

Instructor: Staff

- ▶ *Approved DE Water Ops. MDE Approved #1492-97-02, W All, WD, 48 (1.5x), P. NJ-07-040605-10. 64 hours.*
- ▶ 8/24-12/14, Tuesday, 6-10pm, 16 sessions. ENV 267 251

## Hydraulics and Hydrology

Introduction to hydraulics for water/wastewater treatment plant operators. Includes performing basic hydraulic computations, hydraulic measurement units, pressure, head loss, flow and pump calculation.

Instructor: Mike Cotton

- ▶ *Approved DE Water Ops. Approved DE WW Ops I. MDE Approved #1491-97-02, ALL, 48(1.5x). Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040607-30. 64 hours.*
- ▶ 8/25-12/15, Wednesday, 5:30-8:30pm, 16 sessions. CET 240 251

## Introduction to Environmental Science & Tech

Provides a basic understanding of the normal ecology of the planet and the risks associated with polluting the environment. Environmental pollution and control technology topics: safe drinking water, wastewater treatment, air pollution, solid waste and hazardous waste management.

Instructor: Ann Hobbs

- ▶ *Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved # 1375-96-06, ALL, 48 (1.5x) Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040601-30. 48 hours.*
- ▶ 8/25-12/15, Wednesday, 6-9pm, 16 sessions. ENV 190 251

## **CERTIFICATION: OWENS CAMPUS**

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### **Wastewater Operator Certification Review, Level I**

An entry level course designed for wastewater operators or individuals interested in water quality; prepares students for the state licensing exam. Expert instructor utilizes textbook and videos. Text available in bookstore.

Instructor: Jeff Deats

- ▶ *Approved DE WW Ops-D. MDE Approved #1372-96-06, WW 1-6, S; IW 1-5, 7. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040608-20. Approved VA WWOPS. 48 hrs, 4.8 CEUs.*
- ▶ 8/23-12/13, Monday, 6:30-9:30pm, 16 sessions. \$249. EYI 200 231

### **Wastewater Operator Certification Review, Level II & III**

Prepares students at a more advanced level for state exam.

Excellent instructor. Text available in bookstore.

Instructor: Mark Kondelis

- ▶ *Approved DE WW Ops-D. MDE Approved #1395-96-07 (1.5x) WW 1-6,S; IW 2-5.. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040609-20. Approved VA WWOPS. 48 hrs, 4.8 CEUs*
- ▶ 8/23-12/13, Monday, 6-9pm, 16 sessions. \$249. EYI 201 231

### **Onsite License Preparation Course (H)**

Prepares students to pass the licensing examination for onsite class B (designer), E (installer) and F (hauler). Covers the siting, designing, installation, operation, maintenance and inspection of onsite wastewater treatment systems in Delaware.

Instructor: Hilary Valentine

- ▶ *Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 21 hrs, 2.1CEUs*
- ▶ 9/2-10/14, Thursday, 6-9pm, 7 sessions. \$159. EYI 285 231

### **Pump Fundamentals for Well Drillers**

Topics: jet pumps, submersible pumps, centrifugal pumps up to 5 hp and how to size/install/troubleshoot them. If you pass this course, Well Construction Techniques, Preparation for the Delaware Pump Installers and the Well Drillers Exam course, the instructor will provide his signature for state certification.

Instructor: Eric Sackett

- ▶ *Approved DE Water Ops. Approved MD/DE well drillers. NJ-07-040629-30. 7 hrs, .7 CEUs*
- ▶ 9/3, Friday, 8:30am-4:30pm, 1 session. \$119. EYI 256 201

## **Geographic Information Systems (GIS)Using ARC View**

Practical application using ARC view in establishing a GIS. Cover data collection utilizing GPS, scanned data and assets provided by agencies; establishment of relational data bases for parcels, water, sanitary sewer, storm sewer, electric utilities; mapping, analysis, and presentation of data.

Instructor: Alan Roth, MS

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-I. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-1009702-30. 48 hrs, 4.8 CEUs***
- ▶ 9/8-12/15, Wednesday, 6-10pm, 12 sessions. \$295. EYI 595 231

## **Wastewater Math 101**

Conducted one hour prior to start of Level I Review. Course teaches all math skills needed to successfully complete the state Level I test. Textbook available in bookstore.

Instructor: Jerry Williams

- ▶ ***Approved DE WW Ops-D. MDE Approved #1394-96-07, (1.5x) ALL. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040611-20. Approved VA WWOPS. 14 hrs, 1.4 CEUs***
- ▶ 9/13-12/13, Monday, 5:30-6:30pm, 14 sessions. \$119. EYI 202 231

## **Pipeline Assessment Certification Program**

Understand the inside of pipes, both sanitary and storm, and the defects that cause problems with the collection system. Certification test given. National Association of Sanitary Service Companies. Purchase book in class for \$300.

Instructor: Dick Eubank

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4342-08-09 (1.5x) ALL, NP. NJ-07-090799-20. 16 hrs, 1.6 CEUs***
- ▶ 9/16-9/17, Thursday & Friday, 8:30am-5pm, 2 sessions. \$305. EYI 570 201

## **Programmable Logic Controllers**

Explore the basics of what a PLC is and does and the fundamentals of programming the device; combines lecture and hands-on learning using PLCs Simulator. Learn about ladder logic theory, PLC programming, Functions-Timer-Counter-Math-Logic-Sequencer, PLC Networks Troubleshooting and Servicing the PLC System. Text available in bookstore.

Instructor: Sam Allen

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved # 2622-02-09 (1.5x) ALL, NP. Approved DE onsite lic. C, E, F. DE/EE Approved for 10 CE hrs. NJ-07-040619-30. Approved VA WWOPS. 36 hrs, 3.6 CEUs**
- ▶ 9/21-12/14, Tuesday, 6-9pm, 12 sessions. \$275. EYY 216 231

## **Well Construction Techniques**

Training for entry-level drillers, apprentices, or water service personnel on well construction and sanitary principles. Topics: well components, construction methods and unconsolidated formulation. If you pass this course, Pump Fundamentals and Preparation for the DE Pump Installers and the Well Drillers Exam course, instructor will provide his signature for state certification. Instructor: Eric Sackett

- ▶ **Approved DE Water Ops. Approved MD/DE well drillers. NJ-07-040628-10. 7 hrs, .7 CEUs**
- ▶ 10/7, Thursday, 8:30am-4:30pm, 1 session. \$119. EYI 257 201

## **OSHA (1926) Construction Safety Course**

12 hr. OSHA Construction Safety Outreach Program. Many large companies in Delaware recognize this as meeting their safety requirements. An OSHA card is issued upon successful completion. Instructor: David Eppelheimer

- ▶ **Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #4579-09-07, 12 (1.5x), ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-050797-31. 12 hrs, 1.2 CEUs**
- ▶ 10/14-10/28, Thursday, 5:30-9:30pm, 3 sessions. \$125. EYI 565 231

## **Water Operator Filtration Endorsement Course for Sand/Greensand Filtration, Reverse Osmosis, Ion Exchange, Activated Carbon**

Intermediate level course that prepares the student for the State of Delaware Water Operator Certification Exam for filtration systems. Covers the operation of the following filtration related topics: sand filtration, diatomaceous earth, cartridge filtration, micro-filtration, ultra-filtration, reverse osmosis, greensand filters, ion exchange, activated carbon and activated alumina. Books available for purchase in campus bookstore. Instructor: Steve Rohm

- ▶ **Approved DE Water Ops. NJ-07-040615-10. 30 hrs, 3.0 CEUs**
- ▶ 11/4-12/9, Thursday, 9am-3pm, 5 sessions. \$249. EYI 276 201

## **Preparation for the Delaware Pump Installers and Well Drillers Exam**

Designed to prepare anyone to take the Delaware exam. Topics: review of all examination topics, Delaware regulations and a discussion of industry standards and practices. If you pass this course, Pump Fundamentals and Well Construction, the instructor will provide his signature for state certification. (Includes preparation for NGWA Exam)

Instructor: Eric Sackett

- ▶ *Approved DE Water Ops. Approved DE onsite lic. A, B, C, D, E, F, H. 7 hrs, .7 CEUs*
- ▶ 11/5, Friday, 8:30am-4:30pm, 1 session. \$119. EYI 259 201

## **Water Operator Certification Disinfection Course**

Intermediate level course that prepares the student for the State of Delaware Water Operator Certification Examination regarding disinfection systems. Topics: chlorine gas, hypochlorination, chloramines, ozone, chlorine dioxide, UV, bromine, iodine and regulations. Text available for purchase in campus bookstore.

Instructor: Steve Rohm

- ▶ *Approved DE Water Ops. NJ-07-040617-10. 30 hrs, 3.0 CEUs*
- ▶ 11/9-12/7, Tuesday, 9am-3pm, 5 sessions. \$249. EYI 527 201

## **NICET Water and Sewer Pipeline Certification Course**

Prepares students to take the National Institute of Certified Engineering Technicians test to inspect new infrastructure installation for water/wastewater systems. Test held at DTCC once every quarter.

Instructor: Dick Eubank

- ▶ *Approved DE Water Ops. Approved DE WW Ops-I. 35 hrs, 3.5 CEUs*
- ▶ 11/15-11/19, Monday-Friday, 8:30am-4:30pm, 5 sessions. \$399. EYI 585 201

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## **RECERTIFICATION-OWENS CAMPUS**

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### **Operation & Maintenance of the American Manufacturing "DRIP" Irrigation System**

American Mfg. drip irrigation. Receive an overview of systems function and techniques for proper operation, maintenance, and troubleshooting.

Instructor: Eric Valentine

- ▶ **Approved DE WW Ops-D. Approved DE onsite license A, B, C, D, E, F, H. 3 hrs, .3 CEUs**
- ▶ 8/24, Tuesday, 1-4pm, 1 session. \$49. EYI 542 201

## Chasing The Thermal Demons

Be prepared to take a 21st century viewpoint about how temperature affects your water/wastewater process. Review the various water/wastewater processes; discuss the net effect temperature has on the plant; look at the six most common apparatus used to measure temperature; compare/contrast this apparatus to find the right measurement tool. Explore common calibration protocol demonstrating the typical 0°C DI ice and 100°C DI boiling water calibration process; learn how important the NIST traceable reference is to accurate temperature measurements; and find out why proper documentation is key to meeting most regulatory requirements.

Instructor: Mike Harrington, CET

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #3814-06-06, ALL, P. NJ-07-100602-30. 7 hrs, .7 CEUs**
- ▶ 8/31, Tuesday, 8:30am-4:30pm, 1 session. \$119. EYI 557 201

## 21st Century Drinking Water Corrosion Control

Superb visuals and interactive lecture to define potable water corrosion and the benefit of corrosion indexes. Examine water quality issues (pH, temperature, hardness, alkalinity, TDS); learn about effective corrosion control. Integrating issues like disinfection, distribution piping, flushing schedules, coupon studies and electricity grounding can play a major role in corrosion control.

Instructor: Mike Harrington, CET

- ▶ **Approved DE Water Ops. MDE Approved #2720-03-03, 7 (1.5x) WT ALL; WD, P. PADEP #1937. NJ-07-040630-10. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 9/1, Wednesday,, 8:30am-4:30pm, 1 session. \$125. EYI 274 201

## Pumps: Motors & Controls

Review care/maintenance requirements for pumping systems, associated control panels and motors. Major emphasis on mechanical and electrical troubleshooting.

Instructor: Steve Elder

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #430-89-05, 6 (1.5x) ALL, NP. Approved MD/DE well drillers. Approved DE onsite lic. B, C, E. PADEP #2033. NJ-07-040669-30. Approved VA WWOPS. 6 hrs, .6 CEUs**
- ▶ 9/1, Wednesday, 8:30am-3:30pm, 1 session. \$85. EYI 223 201

## True Confessions of a Water/Wastewater Operator

Using superb interactive graphics and vibrant animated presentation, the instructor will explore the most common chemical dosing mistakes, i.e., “all treatment chemical strengths never change”, chemical feed pump outputs never vary, simply “set-it & forget it”, or “what do I need to monitor in my water”? Lift the veil related to chemical feed; learn why chemical strength, pump calibration, product verification, and residual measurements are so important for process management and resource conservation. Instructor: Mike Harrington, CET

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #3382-05-03, ALL; SUPERS ALL, P. NJ-07-100601-30. 7 hrs, .7 CEUs**
- ▶ 9/2, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 558 201

## Onsite Disposal System Hydraulics

Provides on-site disposal system professionals (designer, installer, operator, inspector) or others (homeowner, soil scientist) with a better understanding of the hydraulic principles involved in on-site disposal systems and their impact on system performance. Topics: buoyancy, gravity distribution, and pressurized distribution systems. Instructor: Brian Carbaugh, P.E.

- ▶ **Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. Approved MD well drillers. 7 hrs, .7 CEUs**
- ▶ 9/8, Wednesday, 8:30am-4:30pm, 1 session. \$119. EYI 549 201

## Filtration Systems - Municipal, Industrial **New!** & Irrigation

Understand the options available for filtering water and wastewater. Discuss micro fiber technology, grooved discs, suction scanning and media filtration. Hands-on demonstrations and video provided by Amiad Filtration systems. Appropriate for water, wastewater and irrigation operators and design engineers. Instructor: Eric Valentine

- ▶ **Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 3 hrs, .3 CEUs**
- ▶ 9/9, Thursday, 1-4pm, 1 session. \$49. EYI 212 201

## Onsite Control Systems

Gain basic knowledge necessary to identify and maintain control systems used on onsite sewage systems. Topics: types of control systems and uses, proper installation/operational methods/maintenance/troubleshooting techniques.

Instructor: Sam Allen

- ▶ *Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 7 hrs, .7 CEUs*
- ▶ 9/10, Friday, 8:30am-4:30pm, 1 session. \$125. EYI 567 201

## Managing Side Stream Discharges

Examine the many routine recycle waste streams within a treatment facility, which increase both flow and loading to the treatment units and may negatively impact their performance efficiency. Focus on identification and corrective action plans.

Instructor: Steve Rohm, CET

- ▶ *Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040640-20. Approved VA WWOPS. 4 hrs, .4 CEUs*
- ▶ 9/10, Friday, 12:30-4:30pm, 1 session. \$65. EYI 505 201

## Small Water Systems

Designed to help meet the challenges in the operations of small water systems, i.e., do more with less. Operators must identify problems and take corrective action. Provides operators with creative ways to identify/correct problems early in the treatment process to minimize down time. Examination of production well monitoring, optimizing chemical feed systems, reviewing alternate disinfection methods and compliance with numerous safety and health regulations.

Instructor: Ed Cope

- ▶ *Approved DE Water Ops. MDE Approved #4302-08-06, 7 (1.5x) WT ALL, P NJ-07-1009704-10. 7 hrs, .7 CEUs*
- ▶ 9/16, Thursday, 8:30am-4:30pm, 1 session. \$119. EYI 598 201

### Water, wastewater, well or onsite?

A chart that lists each of our course offerings is included on pages 3, 4 and 5.

- Chart includes courses offered during the current semester on all Delaware Tech campuses.
- Regulatory approvals listed here are for the State of Delaware only.
- Specific details for Del., Md., N.J., & Va. regulatory course approvals are listed with each course description.

## Getting the Most out of Your Treatment and Storage Lagoon New!

Discuss various types of aerators, mixers and diffusers and the design standards used to get the most out of your lagoon. Appropriate for water/wastewater operators & design engineers. Instructor: Eric Valentine

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 3 hrs, .3 CEUs***
- ▶ 9/16, Thursday, 1-4pm, 1 session. \$49. EYI 215 201

## Activated Sludge

Addresses several critical concerns related to the treatment process: floc formation- development/aging/undesired; roles of nitrogen & phosphorus; heavy metals – inhibition/toxicity/acclimation; nitrification & denitrification – causes/concerns/controls; bioaugmentation - basic concepts/uses associated with the addition of saprophytic and nitrifying bacteria. Instructor: Michael Gerardi

**Featuring nationally known microbiology instructor Michael Gerardi**

- ▶ ***Approved DE WW Ops-D. MDE Approved #602-90-12, WW 3, 5, A; IW 6, P. Approved DE onsite lic. C, E, F. NJ-07-040625-20. Approved VA WWOPS. 6 hrs, .6 CEUs***
- ▶ 9/20, Monday, 8:30am-3:30pm, 1 session. \$185. EYI 275 201

## Respirator Usage/Lockout-Tagout Procedures/Permit Confined Space Entry

Explores three OSHA mandated compliance regulations. Learn about the importance of proper respirator selection, usage, care/maintenance procedures, and contents of a written respirator program. Energy isolation procedures, devices, hazards, and control measures will be covered. Confined space topics include: atmospheric hazards and control measures, personnel roles/responsibilities, the permit system and rescue techniques. Instructor: Bob Chrest, MPA, CET, CST

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #2220-00-12, 4. ALL. Approved DE onsite lic. C, E, F. PADEP #1930. NJ-07-040643-31. Approved VA WWOPS. 8 hrs, .8 CEUs***
- ▶ 9/21, Tuesday, 8:30am-5pm, 1 session. \$119. EYI 286 201

## Evaluating Financial Capacity **Free!**

Discover the principles of sound financial capacity for small utilities, steps to evaluate and measure financial capacity and the reasons each evaluation criterion is important. While most of the discussion pertains to water utilities, the majority of the methods and evaluations also can be applied to wastewater utilities.

Instructor: Jean Holloway

- ▶ *Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #4160-08-02, Supers, ALL, NP. NJ-07-0908105-30. 4 hrs, .4 CEUs*
- ▶ 9/21, Tuesday, 8:30am-12:30pm, 1 session. FREE. EYI 580 201

## Train the Trainer Designed for Collateral Duty Safety Personnel

Designed to assist personnel with improving instructional strategies and skills. Facilitates trainees in conducting training programs for their organization. Learn basic OSHA safety training requirements including (1910.1200) hazard communication and (1910.132) personal protective equipment. Explore instructional techniques/tips for assisting with the adult learning process.

Instructor: Bob Chrest, MPA, CET, CST

- ▶ *Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #2180-00-08, 3.5, (1.5x) and #2397-02-01, 4, (1.5x). Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #2028. NJ-07-040642-31. Approved VA WWOPS. 7 hrs, .7 CEUs*
- ▶ 9/22, Wednesday, 8:30am-4:30pm, 1 session. \$105. EYI 287 201

## Excavation

Provides trainees with an overview of OSHA 1926 Subpart P, OSHA excavation standard. Emphasis is on responsibilities of the competent person including requirements of the standard use of protective systems, and soil analysis. Other topics: causes of cave-ins, OSHA case studies, and emergency response planning.

Instructor: Bob Chrest, MPA, CET, CST

- ▶ *Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #3720-06-06, 6 (1.5x) ALL; SUPERS ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1944. NJ-07-040680-31. Approved VA WWOPS. 6 hrs, .6 CEUs*
- ▶ 9/23, Thursday, 8:30am-3:30pm, 1 session. \$105. EYI 529 201

## **Electrical Safety for Water & Wastewater Operators**

Gain a basic understanding of NFPA 70E (Electrical Safety in Workplace Standards) and basic electrical safety. Topics: wastewater/water laboratory electrical safety requirements, NFPA 70E requirements, electrical safety hazard compliance, ARC flash protection, AFCI and GFCI circuit protection devices, programmable logic controller safety.

Instructor: Sam Allen

- ▶ Approved DE Water Ops. *Approved DE WW Ops-I. MDE Approved #4437-09-04, 7 (1.5x) ALL; SUPERS, NP. Approved DE onsite lic. A, B, C, D, E, H. NJ-07-0409106-31. 7 hrs, .7 CEUs*
- ▶ 9/24, Friday, 8:30am-4:30pm, 1 session. \$125. EYI 586 201

## **Lift Stations**

Designed to review the day-to-day operations and maintenance of lift stations. Lift station operating principles, components, basic troubleshooting and routine preventive maintenance will be discussed.

Instructor: Steve Elder

- ▶ *Approved DE WW Ops-D. MDE Approved #1243-95-07, 7 (1.5x) ALL, NP. Approved DE onsite lic. B, C, E, F. PADEP #2035. NJ-07-040673-20. Approved VA WWOPS. 7 hrs, .7 CEUs*
- ▶ 9/30, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 234 201

## **Fundamentals of Septic Filtration and STEP Systems**

Provides an in-depth examination of the types of onsite media filtration treatment utilized. Evaluate the wastewater renovation capabilities of the most commonly used systems; explore details of the filter construction, distribution laterals, STEP systems and basic pump sizing for STEP systems.

Instructor: Steve Rohm, CET

- ▶ *Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 7 hrs, .7 CEUs*
- ▶ 10/1, Friday, 8:30am-4:30pm, 1 session. \$119. EYI 284 201

## Trenching/Shoring Safety

Discover how to prevent unnecessary deaths by practicing proper safety while digging trenches, one of the most dangerous activities in the construction industry. Designed to familiarize anyone who performs trenching operations with the proper methods necessary to keep their job safe and in compliance with OSHA regulations.

Instructor: Dick Eubank

- ▶ **Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #1879-99-03, 7 (1.5x), ALL; SUPERS ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1947. NJ-07-040671-31. Approved VA WWOPS. 7 hrs, .7CEUs**
- ▶ 10/1, Friday, 8:30am-4:30pm, 1 session. \$119. EYI 208 201

## Budgeting for Small Utilities **Free!**

Outline the basic steps to compile a water or wastewater budget, including methods of projecting revenue and expense with little or no historic data. Supervisors will learn techniques that contribute to a sound budgeting process; technical staff on first level of budget input will learn how to communicate their organizational needs.

Instructor: Jean Holloway

- ▶ **Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #3534-05-07 SUPERS ALL, NP. NJ-07-040685-30. Approved VA WWOPS. 4 hrs, .4 CEUs**
- ▶ 10/5, Tuesday, 8:30am-12:30pm, 1 session. FREE. EYI 532 201

## Electrical Blueprint Reading for Operators

Designed to enhance basic electrical troubleshooting skills by teaching interpretation of electrical blueprints. Learn the meanings of symbols and other information provided on typical electrical drawings.

Instructor: Steve Elder

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #1156-94-12, ALL. Approved MD/DE well drillers. Approved DE onsite lic. C, E. PADEP #691. NJ-07-040663-30. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 10/6, Wednesday, 8:30am-4:30pm, 1 session. \$125. EYI 225 201

## **NFPA 70E 2009 Standard for Electrical Safety in the Workplace**

Electrical power is a dangerous force that requires proper understanding in the workplace. Students will discover how to prevent or minimize exposure to all widely recognized electrical hazards as well as to better understand the importance of the relationship between OSHA and NFPA 70E.

Instructor: Sam Allen

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #4580-09-07, 7, ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. DE/EE Approved for 7 CE hrs. NJ-07-0409107-31. 7 hrs, .7 CEUs***
- ▶ 10/8, Friday, 8:30am-4:30pm, 1 session. \$125. EYI 587 201

## **Managing Fatty Waste in Collection Systems and Lift Stations**

Examine fatty waste (FOG) sources and their effect on wastewater collection systems and treatment facility. Cover strategies to reduce FOG contributions through educational measures and specific scheduled system maintenance strategies. Discuss FOG treatment and disposal technologies to use within the facility and disposal through outside contractors.

Instructor: Steve Rohm, CET

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-1009707-20. 6 hrs, .6 CEUs***
- ▶ 10/11, Monday, 9am-4pm, 1 session. \$119. EYI 597 201

## **Intro to Mapping and GIS for Operators**

Introduces the concept of Geographic Information Systems (GIS), what constitutes a GIS, and how it is used in this industry. Topics: database management, layering, projections and coordinate systems, data viewing/presentation/analysis.

Instructor: Alan Roth, MS

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-I. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040692-30. Approved VA WWOPS. 7 hrs, .7 CEUs.***
- ▶ 10/12, Tuesday, 8:30am-4:30pm, 1 session. \$119. EYI 553 201

## **Basic Microscopy for Wastewater Operators**

Review significant organisms which inhabit wastewater treatment processes and their roles in the stabilization of wastewater and sludge.

Instructor: Mike Harrington, CET

- ▶ *Approved DE WW Ops-D. MDE Approved #2276-01-04, 7 (1.5x) ALL, P. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1938. NJ-07-040623-20. Approved VA WWOPS. 7 hrs, .7 CEUs*
- ▶ 10/14, Thursday, 8:30am-4:30pm, 1 session. \$139. EYI 210 201

## **Pumps: Installation, Maintenance & Repair**

Hands-on course designed to give students instruction on many different pumps. Discuss assembly, disassembly, common operator errors and motor control operation; textbook included.

Instructor: Tony Stockus

- ▶ *Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #1391-96-07, ALL 7.5. Approved MD/DE Well Drillers. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #433. NJ-07-040653-30. Approved VA WWOPS. 7 hrs, .7 CEUs*
- ▶ 10/15, Friday, 8:30am-4:30pm, 1 session. \$145. EYI 209 201

## **Pump Hydraulics**

Vital to anyone who must operate, maintain and troubleshoot water and wastewater pumping systems. Students will acquire a basic understanding of the hydraulic principles related to centrifugal pumps. Topics: hydraulic formulas and volumetric calculations, the properties of water and the hydraulic forces in a pumping system. Bring a scientific calculator to this class.

Instructor: Tony Stockus

- ▶ *Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4197-08-04, 7 (1.5x) ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1932. NJ-07-040686-30. Approved VA WWOPS. 7 hrs, .7 CEUs*
- ▶ 10/18, Monday, 8:30am-4:30pm, 1 session. \$119. EYI 538 201

## Global Positioning Systems

Achieve a basic understanding of the Global Positioning System (GPS) including fundamental concepts, capabilities and limitations. Includes a discussion of both hardware and software as it relates to the collection, use, and presentation of locational information associated with the water and wastewater industries.

Instructor: Alan Roth, MS

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #3624-05-12, 7.0 (1.5x) ALL; SUPERS ALL, NP. Approved MD/DE Well Drillers. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1929. NJ-07-040672-30. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 10/19, Tuesday, 8:30am-4:30pm, 1 session. \$119. EYI 524 201

## Basic Electricity for Operators

Covers important electrical subjects including: fundamentals of electric motors, amperage, theory/measurement, continuity, basic circuits, hands-on electrical tests, connections and more.

Instructor: Bob Norcross

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #1553-97-05, 7, ALL. Approved MD/DE Well Drillers. Approved DE onsite lic. C, E. PADEP #432. NJ-07-040622-30. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 10/20, Wednesday, 8:30am-4:30pm, 1 session. \$155. EYI 205 201

## Operation & Maintenance of Solar Energy Systems for Operators

**New!**

Designed to assist operators with operation/maintenance of solar electrical systems. Topics: understanding the system, installation overview, safety/inspection, preventative maintenance procedures.

Instructor: Michael Manlove

- ▶ **Approved DE Water Ops. Approved DE WW Ops-I. 7 hrs,**
- ▶ 10/21, Thursday, 8:30am-4:30pm, 1 session, \$125. EYI 242 201

## Membranes and Fluoridation Technologies

Provides an in-depth look at reverse osmosis and fluoride. Topics: applications, evaluation methods for determining performance and safe storage and handling techniques. Also covers membrane processes/parameters/operation/maintenance techniques.

Instructor: Ed Cope

- ▶ **Approved DE Water Ops. MDE Approved #3236-04-11, ALL, P. PADEP #2032. NJ-07-040650-30. 7 hrs, .7 CEUs**
- ▶ 10/21, Thursday, 8:30am-4:30pm, 1 session. \$115. EYI 504 201

## Valves

Designed to give distribution system operators the basic knowledge necessary to identify and maintain many of the valves used in a water distribution system. Topics: different types of distribution system valves and their uses, proper valve operation methods, basic valve maintenance, troubleshooting and proper installation techniques.

Instructor: Tony Stockus

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #2188-00-10, ALL (1.5x). Approved DE onsite lic. E. PADEP #689. NJ-07-040638-30. Approved VA WWOPS. 7 hrs, .7 CEUs***
- ▶ 10/22, Friday, 8:30am-4:30pm, 1 session. \$125. EYI 245 201

## Risers, Baffles and Filters - Installation & Repair

Concentrates on the replacement of inlet/outlet baffles (including retrofitting for filter installation), repair of the internal baffle, riser installation and selection and installation of effluent filters.

Instructor: Steve Rohm, CET

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. E, F, H. 4 hrs, .4 CEUs***
- ▶ 10/22, Friday, 12:30-4:30pm, 1 session. \$65. EYI 508 201

## Utility Rate Setting & Cost Recovery **Free!**

Designed to teach utility managers/clerks/elected officials the basics of sound rate-setting methods. Includes reserve calculations, general overhead allocation, financial forecasting and revenue projection based on customer, facility and budget data.

Instructor: Jean Holloway

- ▶ ***Approved DE Water Ops. Approved MDE Approved #4323-08-07, 4, SUPERS; ALL, NP. NJ-07-040621-30. Approved VA WWOPS. 4 hrs, .4 CEUs***
- ▶ 10/26, Tuesday, 8:30am-12:30pm, 1 session. FREE. EYI 249 201

## Replacement Onsite Systems

Examine siting and permitting differences between “replacement” and “new construction” onsite systems. Review the policies used in determining required isolation distances for system placement as well as use of innovative/alternative systems as replacements in difficult areas.

Instructor: Jim Cassidy

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 4 hrs, .4 CEUs***
- ▶ 10/27, Wednesday, 8:30am-12:30pm, 1 session. \$65. EYI 548 201

## Tracking Water Movement through Doppler **New!** and Transit Time Flow Meters

As the cost to treat and disperse both potable and wastewater continues to increase, it is important to ensure the quality/quantity of the water. Introduction to the hardware commonly used for flow monitoring including ultrasonic flow meters & switches, ultrasonic level transmitters, pump controllers and more. Materials, including handouts/demonstration equipment are provided by Greyline instruments. Appropriate for water/wastewater operators & design engineers.

Instructor: Eric Valentine

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 3 hrs, .3 CEUs**
- ▶ 10/27, Wednesday, 1-4pm, 1 session. \$49. EYI 216 201

## 21st Century Principles of Water/Wastewater Liquid Chlorination and De-Chlorination

Examines common mistakes made using hypochlorite and liquid based de-chlorinating agents; compare and contrast onsite generation and high strength versus low strength hypochlorite. Topics: sulfite de-chlorination, Vitamin C, hydrogen peroxide, and other de-chlorinating methodologies. Examines importance of measuring delivered hypochlorite/de-chlorinating agent strength and rates of deterioration, pump calculations and settings. Handling, storing and using liquid based compounds presented.

Instructor: Mike Harrington, CET

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4320-08-07, 7 (1.5x) ALL, P. NJ-07-0908102-30. 7 hrs, .7 CEUs**
- ▶ 10/28, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 577 201

## Excel Basics for Operators **New!**

Enables operators to enhance their data collection capabilities. Students will learn basic navigation, data entry, worksheet formatting, printing, using basic formulas and creating simple charts. Textbook included. Requirement: a basic understanding of computers.

Instructor: Shelley Gabel

- ▶ **Approved DE Water Ops. Approved DE WW Ops-I. Approved DE on-site lic. A, B, C, D, E, F, H. 7 hrs, .7 CEUs**
- ▶ 10/29, Friday, 8:30am-4:30pm, 1 session, \$145. EYI 221 201

## Collection System Troubleshooting

Review the techniques used to identify and repair the collection system defects which can result in sanitary sewer overflows (SSOs). Topics: CMOM requirements, asset management, collection system cleaning and maintenance, flow monitoring, manhole inspections, smoke testing, building inspection, TV inspection, and rehabilitation techniques.

Instructor: Dick Eubank

- ▶ **Approved DE WW Ops-I. MDE Approved #1835-98-11, ALL (1.5x), NP PADEP #1941. NJ-07-040688-30. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 10/29, Friday, 8:30am-4:30pm, 1 session. \$119. EYI 204 201

## Chlorination Technology

Developed to train water/wastewater operators in the principles of chlorination. Topics: review of various disinfection technologies and discussion of main types of chlorine application systems.

Instructor: Steve Elder

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #1094-94-10, ALL, 7 (1.5x), P. Approved for MD/DE well drillers. Approved DE on-site lic. C, E. PADEP #2022. NJ-07-040667-30. 7 hrs, .7 CEUs**
- ▶ 11/3, Wednesday, 8:30am-4:30pm, 1 session. \$125. EYI 226 201

## Submersible Pumps

Teaches submersible pump troubleshooting, control panel troubleshooting, as well as theory and operation of submersible pumps. Selection and application of pump types will be discussed.

Instructor: Stan Siegfried

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040691-30. Approved VA WWOPS. 7 hrs, .7CEUs**
- ▶ 11/5, Friday, 8:30am-4:30pm, 1 session. \$145. EYI 545 201

### **Water, wastewater, well or onsite?**

A chart that lists each of our course offerings is included on pages 3, 4 and 5.

- Chart includes courses offered during the current semester on all Delaware Tech campuses.
- Regulatory approvals listed here are for the State of Delaware only.
- Specific details for Del., Md., N.J., & Va. regulatory course approvals are listed with each course description.

## Management Systems Approach to Improve Water and Wastewater Facility Operations

Students will learn to use EPA's environmental management systems document to design/implement environmental management systems in water/wastewater facilities.

Instructor: Jim Newton, P.E., DEE

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4766-10-03(1.5x), SUPERS, ALL, NP. NJ-07-1009700-30. 7 hrs, .7 CEUs***
- ▶ 11/9, Tuesday, 8:30am-4:30pm, 1 session. \$125. EYI 596 201

## Self Priming Centrifugal Pumps

Covers centrifugal pump hydraulics, system hydraulics, troubleshooting, and safety; Discussion of pump system design.

Instructor: Tim Brown

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. Approved DE onsite lic. B, C, E, F, H. NJ-07-1009709-30. 7 hrs, .7 CEUs***
- ▶ 11/10, Wednesday, 8:30am-4:30pm, 1 session. \$119. EYI 582 201

## DOT Regs Review for Pumpers

Review federal motor carrier safety regulations; emphasis on DOT out-of-service criteria. Includes book.

Instructor: Lee Derrickson

- ▶ ***Approved DE onsite lic. F. Limit 25 students. 3 hrs, .3 CEUs***
- ▶ 11/10, Wednesday, 6:30-9:30pm, 1 session. \$65. EYI 575 231

## Operation & Maintenance of the Bio-Microbics FAST Treatment Unit

Provides an in-depth view of the Biomicrobics FAST Treatment unit. Lessons cover tank/unit installation and basic treatment process. Learn to troubleshoot the system's controls and blower of the system, identify the proper preventive maintenance and cleaning. All tools will be provided for the hands on portion of the class.

Instructor: Ben Miller

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 3 hrs, .3 CEUs***
- ▶ 11/11, Thursday, 8:30-11:30am, 1 session. \$49. EYI 541 201

## Three Phase AC Power Workshop

Review typical electrical vocabulary and AC power theory. Discuss common three-phase voltage and transformer configurations

and operation of three-phase motors. Perform testing and troubleshooting methods on three-phase power and motors; compare single to three-phase power.

Instructor: Sam Allen

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved 4545-09-06, 7 (1.5x), ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040689-30. Approved VA WWOPS. 7 hrs, .7 CEUs***
- ▶ 11/12, Friday, 8:30am-4:30pm, 1 session. \$119. EYI 543 201

## **Water Supply Hydrology, Sources and Water Conservation**

Explore several issues surrounding water sources and conservation, specifically groundwater and surface water sources. Topics: options available for the facility during emergency situations, alternative water sources; use and conservation of water and practical application of the information covered.

Instructor: Ed Cope

- ▶ ***Approved DE Water Ops. MDE Approved #2391-02-01, 7.5 (1.5x). PADEP #2027. NJ-07-040632-10. 7 hrs, .7 CEUs***
- ▶ 11/15, Monday, 8:30am-4:30pm, 1 session. \$119. EYI 288 201

## **Capital Improvements Planning & Long Term Water & Sewer Capacity** Free!

Provides an overview of the preparation of a Capital Improvements Plan (CIP), how that plan relates to the sustainability of a water and/or sewer system and the capacity development issues associated with the Safe Drinking Water Act Amendments. Learn why having a CIP is important (even for a small community), how to start preparing a CIP when a community doesn't have one, and the "how to" of building public support for the plan.

Instructor: Jean Holloway

- ▶ ***Approved DE WW Ops-I. Approved DE Water Ops. MDE Approved #3139-04-08 SUPERS ALL, NP. NJ-07-040645-30. Approved VA WWOPS. 4 hrs, .4 CEUs***
- ▶ 11/16, Tuesday, 8:30am-12:30pm, 1 session. FREE. EYI 266 201

## Team Building

Explore methods of building a work team that is committed to accomplishing organizational goals. Topics: how to build a work team/reach decisions/enhance productivity through teamwork.

Instructor: John Kurpjuweit

- ▶ **Approved DE Water Ops. MDE Approved #4582-09-07, 7, ALL, NP. PADEP #2030. NJ-07-040649-30. Approved VA WWOPS. 7 hrs, .7CEUs**
- ▶ 11/17, Wednesday, 8:30am-4:30pm, 1 session. \$95. EYI 513 201

## Water/Wastewater Operations for Elected/Appointed Public Officials **Free!**

Covers everything that public officials need to know to oversee and manage their water and wastewater facilities. Students are provided with two excellent textbooks for reference.

Instructor: Kevin Burdette

- ▶ **Approved DE Water Ops. NJ-07-040651-30. Approved VA WWO-PS. 5 hrs, .5 CEUs**
- ▶ 11/17, Wednesday, 9am-2pm, 1 session. FREE. EYI 265 201

## Verifying the Water, Wastewater Process

Combines interactive lecture and test method demonstration of water/wastewater testing for compliance and operational needs. Covers the basic calorimetric, titrimetric, nephelometric, electrometric, turbimetric testing protocol for operation needs. Provides environmental operators with the tools needed to choose the right test method, and apply it towards operational and compliance needs.

Instructor: Mike Harrington, CET

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4301-08-06, 7 (1.5x) ALL, P. PADEP #430. NJ-07-040633-30. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 11/18, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 233 201

## Well Grouting Fundamentals **New!**

Learn about grout: types; application, mixing and placement of different types. Wear work clothing; grout used in practical exercises.

Instructor: Eric Sackett

- ▶ **Approved DE Water Ops. Approved DE Well Drillers. 7 hrs, .7 CEUs**
- ▶ 11/19, Friday, 8:30am-4:30pm, 1 session, \$119. EYI 220 201

## **Delaware's Hydrogeology and the Rocks and Fossils of the Mid-Atlantic**

Overview of the numerous geological formations comprising the state's thick sedimentary sequence. Topics: plate tectonics and how this relates to geology, common rocks and fossils and prehistoric monsters of the Mid-Atlantic region. Sediment, rock and fossil samples displayed/discussed. Hydrogeological topics including aquifer types, Delaware aquifer systems, yield potential, drawdown, ground-water contamination and sources, principles of groundwater flow, GW recharge and discharge, hydraulic head & salt water intrusion.

Instructor: Blair Venables, P.G.

- ▶ ***Approved DE Water Ops. Approved MD/DE well drillers. Approved DE onsite lic. A, B, C, D, E. NJ-07-040635-10. 7 hrs, .7 CEUs***
- ▶ 11/19, Friday, 8:30am-4:30pm, 1 session. \$119. EYI 502 201

## **Soils Based Approach to Siting Wastewater Disposal**

Understand how soil physical properties impact the siting of onsite wastewater disposal in Del. Emphasis on site evaluation process: how to review/understand reports and application to septic design process. Other topics: preliminary review (feasibility studies), soil investigative reports for community disposal systems, percolation testing.

Instructor: Bill Gangloff

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 4 hrs, .4 CEUs***
- ▶ 11/22, Monday, 8:30am-12:30pm, 1 session. \$65. EYI 574 201

## **Onsite 101**

A look at septic systems from A to Z. Follows the septic system from site evaluation through final inspection. Covers system layout, clearing, excavation, installation techniques, and all required paperwork.

Instructor: Jim Cassidy

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. Approved MD well drillers. 7 hrs, .7 CEUs.***
- ▶ 11/24, Wednesday, 8:30am-4:30pm, 1 session. \$119. EYI 547 201

## Electrical Troubleshooting for Operators

Learn how to troubleshoot common electrical problems encountered in water and wastewater facilities. Topics: using schematics and technical drawings to help troubleshoot control circuits, combination starters, control devices, special controls, DC motors, AC motors and lighting.

Instructor: Bob Norcross

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #2025-99-09, 7 (1.5x) ALL. Approved MD/DE well drillers. Approved DE onsite lic. C, E. PADEP #438. NJ-07-040654-30. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 11/24, Wednesday, 8:30am-4:30pm, 1 session. \$155. EYI 238 201

## Soils

Designed to give installers, haulers and designers a general overview of how soils affect the operation of an on-site system. Discuss textures, compaction, water movement and soil pollution.

Instructor: Ian Kaufman, CPSS/SC

- ▶ **Approved DE WW Ops-I. Approved DE onsite lic. A, B, C, E, F, H. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 11/30, Tuesday, 8:30am-4:30pm, 1 session. \$119. EYI 294 201

## Asset Management Program Basics **Free!**

Discover the basic steps in developing a systematic asset management program for public infrastructure assets and apparatus. Includes an overview of the reasons to establish a program, and its relationship to regulatory requirements and guidance, such as GASB 34.

Instructor: Jean Holloway

- ▶ **Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #3056-04-05 ALL; SUPERS ALL, NP. NJ-07-040637-30. Approved VA WWOPS. 4 hrs, .4 CEUs**
- ▶ 11/30, Tuesday, 8:30am-12:30pm, 1 session. FREE. EYI 297 201

## Troubleshooting Pumps

Designed for operations/maintenance personnel; learn the fundamental techniques of troubleshooting centrifugal pumps. Simple, effective tests for assessment of pump operational efficiencies and life expectancy.

Instructor: Steve Elder

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #190-86-09, ALL, 7.5 (1.5x), NP. Approved MD/DE well drillers. Approved DE onsite lic. E. PADEP #688. NJ-07-040668-**

**30. Approved VA WWOPS. 7.5 hrs, .75 CEUs**

- ▶ 12/1, Wednesday, 8:30am-4:30pm, 1 session. \$125. EYI 230 201

## **Customer Relations for Environmental Technicians**

Identify customer service expectations and build creative solutions to meet your needs. Learn how to diffuse an irate customer over the phone or in person; your body language can enhance or discourage the process. Learn practical tools to listen effectively to customer feedback and take action to solve problems.

Instructor: John Kurpjewit

- ▶ **Approved DE Water Ops. MDE Approved #4583-09-07, 7, ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1942. NJ-07-040626-30. Approved VA WWOPS. 7 hrs, .7 CEUs**
- ▶ 12/1, Wednesday, 8:30am-4:30pm, 1 session. \$95. EYI 503 201

## **Math Review for the Maryland & Virginia Water Exam and Advanced Math for Delaware Operators**

Review basic math skills and solve math problems from the Maryland & Virginia water exams.

Instructor: Jerry Williams

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. 7 hrs, .7 CEUs**
- ▶ 12/1, Wednesday, 8:30am-4:30pm, 1 session. \$149. EYI 581 201

## **Math Review for the Maryland & Virginia Wastewater Exam and Advanced Math for Delaware Operators**

Review basic math skills and solve sample problems from the Maryland & Virginia wastewater exams.

Instructor: Jerry Williams

- ▶ **Approved DE WW Ops-D. 7 hrs, .7 CEUs**
- ▶ 12/2, Thursday, 8:30am-4:30pm, 1 session. \$149. EYI 584 201

## **Collection Systems Short Course**

Designed to give collection system operators and maintenance personnel the basic knowledge to operate and maintain wastewater collection systems. Topics: safety, lateral connections, major system components, proper use and operation of equipment and tools utilized to maintain a system; customer service and terminology.

Instructor: Dick Eubank

- ▶ **Approved DE WW Ops-I. MDE Approved #4343-08-09, (1.5x) ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-0908104-30. 14 hrs, 1.4 CEUs**
- ▶ 12/2-12/3, Thursday & Friday, 8:30am-4:30pm, 2 sessions. \$185. EYI 579 201

## **Intro to Variable Frequency Drives (VFD)**

Understand variable frequency drive uses, operations and maintenance. Topics: what are VFDs, why use them, how do they work, available features, troubleshooting and maintenance requirements.

Instructor: Sam Allen

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. Approved DE onsite lic. C, E. NJ-07-0608101-30. MDE Approved #4314-08-06, 7 (1.5x) ALL, NP. 7 hrs, .7 CEUs***
- ▶ 12/3, Friday, 8:30am-4:30pm, 1 session. \$125. EYI 573 201

## **Math Review for Water Operators**

Review basic math skills, problem-solving techniques and use of calculator for successful completion of the state exam. No text.

Instructor: Jerry Williams

- ▶ ***Approved DE Water Ops. MDE Approved #1166-94-12, ALL, 6. Approved DE Well Drillers. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040656-10. 6 hrs, .6 CEUs***
- ▶ 12/6, Monday, 8:30am-3:30pm, 1 session. \$89. EYI 243 201

## **Innovative & Alternative Onsite Systems**

Focus on application and use of technologically advanced onsite systems to save space and enhance ground water protection.

Instructor: Hilary Valentine

- ▶ ***Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 7 hrs, .7 CEUs***
- ▶ 12/7, Tuesday, 8:30am-4:30pm, 1 session. \$119. EYI 576 201

## **Time and Project Management**

Develop multi-tasking skills to balance the demands of the organization, employees, and your personal life. Learn strategies for time management and for developing an action plan.

Instructor: John Kurpjuweit

- ▶ ***Approved DE WW Ops-I. Approved DE Water Ops. MDE Approved #4581-09-07, 7, ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1946. NJ-07-040644-30. Approved VA WWOPS. 7 hrs, .7 CEUs***
- ▶ 12/8, Wednesday, 8:30am-4:30pm, 1 session. \$95. EYI 512 201

## **Inspection Onsite WW Systems**

Provides students with the knowledge and necessary protocol for inspecting on-site wastewater treatment systems. Prepares students for the Delaware Class H license examination; provides

the necessary guidelines for performing an effective and regulatory approved on-site system inspection. Provides students with important information on inspecting alternative on-site systems and completion of state inspection reports.

Instructor: Jim Cassidy

- ▶ **Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 7 hrs, .7 CEUs**
- ▶ 12/8, Wednesday, 8:30am-4:30pm, 1 session. \$159. EYI 533 201

## **Alternative Energy Sources for Water & Wastewater Facilities**

Students are instructed on the use of alternative energy sources. Topics: anaerobic digestion, wind power, solar power, future alternative energy sources.

Instructor: Jim Newton, P.E., DEE

- ▶ **Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #4789-10-05, 7(1.5x), ALL, NP. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-1009701-30. 7 hrs, .7 CEUs**
- ▶ 12/9, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 592 201

## **Intro to SCADA**

Review of typical vocabulary and symbols used in SCADA systems for water and wastewater systems. Learn SCADA basic operations and functions, how it improves operational control and monitoring, and common problems faced when using SCADA in facilities.

Instructor: Sam Allen

- ▶ **Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4436-09-04, 7 (1.5x) ALL, NP. Approved DE onsite lic. C, E. NJ-07-050795-30. 7 hrs, .7 CEUs**
- ▶ 12/10, Friday, 8:30am-4:30pm, 1 session. \$125. EYI 561 201

## **Onsite Wastewater Treatment and Disposal Systems**

Explore how the regulations governing the design, installation and operation of onsite wastewater treatment and disposal systems are used to create policies (existing and proposed) and procedures used by DNREC.

Instructor: Dave Schepens

- ▶ **Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. Approved MD well drillers. 3 hrs, .3 CEUs**
- ▶ 12/14, Tuesday, 5:30-8:30pm, 1 session. \$49. EYI 540 231

## **CUPSS Software Training (Check Up Program Free! for Small Systems)**

Introduction to the basic principles of Asset Management, incorporating preventive maintenance/planning/financial monitoring/forecasting/asset replacement planning into a comprehensive program for sustaining utilities. Become familiar with new EPA-sponsored CUPSS software program that enables students to set up a comprehensive program. Hands-on use of the software is available for max of six utility systems with up to three representatives from each system; mock system information will be provided or attendees may bring their own system information.

Instructor: Jean Holloway

- ▶ *Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4670-09-09, 4, ALL, NP. NJ-07-1009703-30. 4 hrs, .4 CEUs*
- ▶ 12/14, Tuesday, 8:30am-12:30pm, 1 session. FREE. EYI 593 201

## **Math Review for Wastewater Operators**

Review of basic math skills needed for successful completion of state exam. Flow problems, area, volume and review of problem-solving techniques and use of calculator.

Instructor: Jerry Williams

- ▶ *Approved DE WW Ops-D. MDE Approved #1165-94-12, ALL, 6. Approved DE Well Drillers. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040660-20. Approved VA WWOPS. 6 hrs, .6 CEUs*
- ▶ 12/15, Wednesday, 8:30am-3:30pm, 1 session. \$89. EYI 217 201

## **Care and Feeding of Septic Systems**

Homeowners will explore the design, maintenance and basic troubleshooting of basic systems.

Instructor: Steve Rohm, CET

- ▶ *Approved DE WW Ops-D. Approved DE onsite lic. A, B, C, D, E, F, H. 4 hrs, .4 CEUs*
- ▶ 12/15, Wednesday, 6-10pm, 1 session. \$65. EYI 583 231

**ONSITE TRAINING DAY - 12/15/10 - 10 hours; \$154**

**Math Review for Wastewater Operators & Care and Feeding of Septic Systems**

## Driving the False Impressions Out of Your **New!** Water System

Public water suppliers who simply “sell” water to their customers need to understand that selling a product involves measuring/gauging/changing customer perception. Learn how the bottled water/water conditioning industry uses marketing techniques to alter/change perceptions about product value; how those tools are developed and how suppliers can use the same marketing strategies. Learn how quarterly invoices, door-hangers, newsletters, CCR’s, etc. can be used effectively for more than their purpose. Instructor: Mike Harrington, CET

- ▶ **Approved DE Water Ops. 7 hrs, .7 CEUs**
- ▶ 12/16, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 211 201

## Effective Water Distribution System Flushing

Effectively flushing the water distribution system is critical to maintaining the highest possible water quality. Intended to familiarize the operator with the procedure necessary to design and perform a unidirectional flushing of the system. Topics: distribution system hydraulics, flushing program objectives, tool and equipment requirements, valve and hydrant operation, flushing program design, data collection, customer relations and flushing problem solving. Bring a calculator.

Instructor: Dick Eubank

- ▶ **Approved DE Water Ops. MDE Approved #1885-99-04, 7 (1.5x) WT ALL; WD, NP. PADEP #1943. Approved MD/DE Well Drillers. NJ-07-040665-10. 7 hrs, .7 CEUs**
- ▶ 12/17, Friday, 8:30am-4:30pm, 1 session. \$125. EYI 207 201

## **C**ERTIFICATION-STANTON CAMPUS

### Wastewater Operator Certification Review, Level I

Designed as preparation for state licensing exam. Entry level course designed for wastewater operators or individuals interested in water quality. Expert instructor utilizes textbook and videos. Text available in bookstore.

Instructor: Glenn Davis, CET

- ▶ **Approved DE WW Ops-D. MDE Approved #1372-96-06, WW 1-6, S; IW 1-5, 7. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040608-20. Approved VA WWOPS. 48 hrs, 4.8 CEUs**
- ▶ 8/23-12/13, Monday, 6-9pm, 16 sessions. \$249. EYI 200 531

## **Wastewater Operator Certification Review, Level II & III**

Prepares students at a more advanced level for state exam.

Excellent instructor; text available in bookstore.

Instructor: Art Fagerstrom, P.E.

- ▶ *Approved DE WW Ops-D. MDE Approved #1395-96-07 (1.5x) WW 1-6,S; IW 2-5.. Approved DE onsite lic. A, B, C, D, E, F, H. NJ-07-040609-20. Approved VA WWOPS. 48 hrs, 4.8 CEUs*
- ▶ 8/23-12/13, Monday, 6-9pm, 16 sessions. \$249. EYI 201 531

## **Base Level Water Operators Course**

Entry-level course that prepares the student for the state certification exam. Teaches basic water system operator responsibilities, water sources and treatment, math, pumps, disinfection, lab procedures, treatment plant operations and safety.

Instructor: Sheila Shannon

- ▶ *Approved DE Water Ops. MDE Approved #2451-02-03, 57 (1.5x) Approved DE Well Drillers. NJ-07-040612-10. 57 hrs, 5.7 CEUs*
- ▶ 8/26-12/16, Thursday, 6-10pm, 14 sessions. \$295. EYI 237 531

# **RECERTIFICATION-STANTON CAMPUS**

## **Chlorine Dioxide Disinfection in the Water/Wastewater Process**

Examine alternative disinfections, explore chlorine dioxide as a primary disinfection, compare and contrast all forms of chlorine. Discover how chlorine dioxide is generated, used, and reacts in water and wastewater.

Instructor: Mike Harrington, CET

- ▶ *Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4393-09-03 (1.5x) 7, ALL, P. NJ-07-0908103-30. 7 hrs, .7 CEUs*
- ▶ 9/9, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 578 501

## **Chlorination Disinfection Science**

Review the dosing technology for the three basic forms of chlorine disinfection while evaluating the pros and cons of each type of system. Learn why switching from a gas based chlorination process may not be advantageous or cost effective when real costs are examined. Discover why most current hypochlorite users don't routinely measure product strength. Examine hypochlorite strength and residual testing methods. Find out why onsite generation systems may be appropriate and cost effective. Look at simple

ways to minimize disinfection byproducts. Is a tablet based chlorine disinfection system appropriate? Through the use of superb computer visuals, expert commentary, demonstrations, and case histories, the operator will leave with answers to these questions and more.

Instructor: Mike Harrington, CET

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. Approved DE on-site lic. C, E, H. PADEP #2023. NJ-07-040679-30. Approved VA WWOPS. 7 hrs, .7 CEUs***
- ▶ 9/23, Thursday, 8:30am-4:30pm, 1 session. \$125. EYI 530 501

## **Fire Hydrant Operation & Maintenance**

An in-depth survey of the processes, theory, application and operation of potable water treatment systems. Topics: theory and operation of mixing systems, coagulation chemistry, monitoring optimization of chemical application, flocculation, sedimentation, water filtration, disinfection, water softening, ion exchange, membrane processes and treatment plant instrumentation and control.

Instructor: Mike Burkardt

- ▶ ***Approved DE Water Ops. MDE Approved #1492-97-02, W All, WD, 7 (1.5x), P. NJ-07-040605-10. 7 hrs, .7 CEUs***
- ▶ 9/29, Wednesday, 8:30am-4:30pm, 1 session. \$125. EYI 267 501

## **Ten Little-Known Water/Wastewater Operators' Secrets**

Explores little-known tools to achieve better operations in treatment, distribution, or collection. Discover the importance of simple hypochlorite strength measurements; why portable ORP monitoring can yield big dividends; how refining lab tests for disinfection residuals, alkalinity, solids core-taking, nutrient and jar-testing can avoid violations.

Instructor: Mike Harrington, CET

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #1964-99-07, 7 (1.5x) ALL, NP. PADEP #434. NJ-07-040631-30. Approved VA WWOPS. 7 hrs, .7 CEUs***
- ▶ 10/12, Tuesday, 8:30am-4:30pm, 1 session. \$125. EYI 232 501

## **Five Common Sense Practices for Better Water/Wastewater Operations**

A look at common misunderstood key elements to achieve a well-run operation. Explore the two most important measurement

parameters an operator can make but often take a back-seat in importance. Understand why their key role can lead to a better process. Investigate the three key operational practices often ignored in the chemical feed process. See why/how to verify every chemical delivery; learn key advantages of using the weakest strength of a chemical that is practical.

Instructor: Mike Harrington, CET

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #4685-09-11, 7 (1.5x) ALL, P. NJ-07-1009706-30. 7 hrs, .7 CEUs***
- ▶ 10/13, Wednesday, 8:30am-4:30pm, 1 session. \$125. EYI 591 501

## **21st Century Ultra Violet Disinfection**

Investigate the latest UV disinfection techniques and applications for both potable water and wastewater. Operations personnel will explore the advantages of UV systems compared to typical chemical disinfection systems like chlorine or ozone. Learn why the latest research suggest low-dose UV may be very effective at controlling giardia and cryptosporidium in potable waters, define and examine what UV is, how it differs from other typical disinfection systems, and understand the disadvantages.

Instructor: Mike Harrington, CET

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #3889-06-11, 7 (1.5x) ALL, P. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP#3587. NJ-07-050794-30. 7 hrs, .7 CEUs***
- ▶ 10/27, Wednesday, 8:30am-4:30pm, 1 session. \$125. EYI 560 501

## **Surface Water Treatment**

Covers concepts, treatment components, process control, and troubleshooting for the major components of a typical surface water treatment plant. Details of coagulation, flocculation, sedimentation, and filtration, including the “optimization goals” of each process. Instruction and practice in solving typical operational and mathematical problems included. Bring a calculator.

Instructor: Ed Cope

- ▶ ***Approved DE Water Ops. Approved DE WW Ops-I. MDE Approved #3640-06-01, 7 (1.5x) WT ALL, P. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #1933. NJ-07-040693-10. 7 hrs, .7 CEUs***
- ▶ 12/9, Thursday, 8:30am-4:30pm, 1 session. \$115. EYI 550 501

## **RECERTIFICATION-TERRY CAMPUS**

### **Tips & Tools for 21st Century Water/Wastewater Process Monitoring**

Unique monitoring workshop explores alkalinity & REDOX monitoring as a process control. Through a series of superb graphics and computer-based slides, learn why using these simple tests can lead to big process control dividends, significant time savings, reduce monitoring/disposal costs and afford real-time-right-now process data to make on-the-spot operations decisions.

Instructor: Mike Harrington, CET

- ▶ *Approved DE Water Ops. Approved DE WW Ops-D. MDE Approved #2189-00-10, 7 (1.5x) ALL, P. Approved DE onsite lic. A, B, C, D, E, F, H. PADEP #2029. NJ-07-040624-30. Approved VA WWOPS. 6 hrs, .6 CEUs*
- ▶ 9/7, Tuesday, 8:30am-4:30pm, 1 session, \$125. EYI 250 601

### **The State Wastewater Exam “Hurricane” Review Level I**

Prerequisite - EYI 200: Part of a two-course series designed for individuals that want a structured review course prior to the state exam. Both review courses are designed to reinforce knowledge that the student already possesses. Level I Operators may take this course by itself; it is a prerequisite course for the State Wastewater Exam “Hurricane” Review Levels II, III, and IV course. No exceptions. No text. Bring calculator, pencil, paper and RDP.

Instructor: Joe Mulrooney

- ▶ *Approved DE WW Ops-D. 7 hrs, .7 CEUs*
- ▶ 1/11, Tuesday, 8:30am-4:30pm, 1 session. \$95. EYI 282 601

### **The State Wastewater Exam “Hurricane” Review Levels II, III and IV**

Prerequisites: EYI 200, 201, & 582 - Levels II, III, & IV cannot be taken independently of the State Wastewater Exam “Hurricane” Review Level I course; it is the final portion of a two-course series designed for individuals that want a structured high level review course prior to the state exam. Designed to reinforce knowledge that Level II, III & IV Operators already possesses. Registered students will be required to verify that prerequisite course requirements have been met. No exceptions. No text. Bring calculator, pencil, paper and RDP. Instructor: Joe Mulrooney

- ▶ *Approved DE WW Ops-D. 7 hrs, .7 CEUs*
- ▶ 1/12, Wednesday, 8:30am-4:30pm, 1 session. \$95. EYI 283 601

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# REGISTRATION INFO

## How do I register:

### **For credit courses:**

Call 302-855-5900 for enrollment and scholarship information for credit courses at the Jack F. Owens Campus in Georgetown, Delaware.

### **For courses held at the Jack F. Owens Campus in Georgetown:**

Call 302-855-1617 or fill out the registration form on page 39 to register for certification and recertification courses at the Jack F. Owens Campus in Georgetown, Delaware.

### **For courses held at the Terry Campus in Dover:**

Call 302-857-1406 to register for certification and recertification courses at the Terry Campus in Dover, Delaware.

### **For courses held at the Stanton Campus in Newark:**

Call 302-453-3000 to register for certification and recertification courses at the Stanton Campus in Newark, Delaware.

## How do I determine if a course is approved for water, wastewater, well or onsite?

See "Regulatory Course Approvals" in the front of this booklet for State of Delaware approvals. Specific regulatory approval information for Del., Md., N.J., and Va. is listed for each course. This information is located immediately after the instructor's name in the course description section...in **bold** for easy reading. Please call 302-855-5900 if you have any questions.

## **Please Help Us!**

*Is this booklet addressed correctly?*

*If not, please let us know.*

*Call the ETC at 302-855-5906 and leave us a message.*

*We will be happy to make the changes you need.*

# REGISTRATION FORM

Date of Birth \_\_\_\_\_

Name (Last, First) \_\_\_\_\_

Address \_\_\_\_\_

City/State/ZIP \_\_\_\_\_

Phone (Day) \_\_\_\_\_ (Evening) \_\_\_\_\_

E-mail Address \_\_\_\_\_

Would you like to receive course information via e-mail?  Yes  No

<b>Telephone</b> Call 302-855-1617	<b>Four Easy Ways to Register</b>		
<b>Fax</b> Dial 302-858-5456	Course #	Course Title	Cost
<b>In Person</b> <i>Corporate and Community Programs, (Jason Technology Center, Rm. 109)</i>	<b>Total Due</b>		
<b>Mail</b> <i>Delaware Tech Attn: CCP Registration P.O. Box 610 Georgetown, DE 19947</i>	<b>Method of Payment</b> <input type="checkbox"/> Check payable to Delaware Tech <input type="checkbox"/> Cash (In person only) <input type="checkbox"/> Credit Card (Phone, fax) Charge my: <input type="checkbox"/> <b>Visa</b> <input type="checkbox"/> <b>Discover</b> <input type="checkbox"/> <b>MasterCard</b> Card# _____ Exp. Date _____		
	Card Verification Code (Last three digits on back of card) Authorized Signature _____		

How did you find out about us?     Course Booklet     Postcard     News Article

Advertisement     Word of Mouth     Other: \_\_\_\_\_

Gender:     Female     Male

Ethnic Origin:     African-American     Caucasian  
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**FALL 2010**



Jack F. Owens Campus  
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Georgetown, DE 19947

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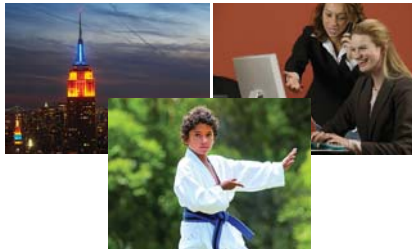
## CORPORATE AND COMMUNITY PROGRAMS

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