

# Water Distribution Systems Operator Level 2 and 3 Training Course

Approved by the FDEP for Distribution Level 2 or 3 Exam.

*Students will receive “Water Distribution Operator Training Handbook” published by the AWWA*

## Schedule

Sept 22-25, 2009

Oct 20, 2009 State Exam Review



## Course Objectives

1. Explain the State and Federal water quality requirements for water distribution systems
2. Describe how a water distribution system is designed and constructed
3. Describe the operation and maintenance tasks of the water distribution system operator
4. Be able to solve math problems required of the water distribution system operator
5. Describe problems found in distribution systems and corrective action
6. Demonstrate the ability to take computer based tests

## Description

This course is designed for the system operator who desires to be certified by the State of Florida Operator Certification Program. This course covers a wide variety of topics and covers the necessary material for individuals working in the drinking water distribution field.

Our instructors use a hands-on approach to learning. This course follows the Association of Boards of Certification (ABC) “Need-to-Know Criteria for Distribution Operators.”

This course includes the use of the computer lab to help prepare the student for the new state computer-based exam.

## Course Details

Cost: \$495

FDEP OCP DS/DW CEUs: 3.2 Intermediate 41999 Level 2

FDEP OCP DS/DW CEUs: 3.2 Basic 41998 Level 3

CEUs DS/DW: 3.2

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Ron Trygar, [rtrygar@treeo.ufl.edu](mailto:rtrygar@treeo.ufl.edu) or 352/392-9570 ext. 215



## Course Location

Classroom & Computer Lab at the University of Florida  
TREEO Center

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## Agenda ~ Day 1: Sept. 22, 2009

8am-8:30am	Introductions
8:30am-9:30am	The Need For and Responsibilities of Water Distribution Operators
9:30am-9:45am	Break
9:45am-11:00am	The Water Supply System
11:00am-12 noon	Mathematics Fundamentals
12 noon-1pm	Lunch – on your own
1:00pm-2:00pm	Applied Math – Problem Solving
2pm-2:15pm	Break
2:15pm-3:00pm	Distribution System Hydraulics
3:00pm-3:45pm	Applied Hydraulics Problem Solving
3:45p-4:00pm	Break
4:00pm-5:00pm	Florida’s Certification Rules; Introduction to Computer-based Testing
5:00pm	Adjourn Day One

## Agenda ~ Day 2: Sept. 23, 2009

8:00am-8:30am	Water Storage Facilities and O&M
8:30am-9:30am	Applied Water Storage Facility Mathematics
9:30am-9:45am	Break
9:45am-12 noon	Water Mains & Fittings
12 noon-1pm	Lunch – on your own
1pm-2pm	Distribution System Valves & Services
2pm-2:15pm	Break
2:15pm-3pm	Distribution System Valves & Services
3pm-3:30pm	Water Meters
3:30p-3:45pm	Break
3:45pm-5:00pm	Water Meters (Cont.) & Review Quiz
5:00pm	Adjourn Day Two

## Agenda ~ Day 3: Sept. 24, 2009

8am-9:30am	Distribution System Installation
9:30am-10am	Break
10:00am-11:00am	Distribution System Installation, cont’d
11:00am-12 noon	Distribution System O & M Requirements
12 noon-1:00pm	Lunch – on your own
1:00pm-2:15pm	Distribution System O & M Requirements, cont’d
2:15pm-2:30pm	Break
2:30pm-3:30pm	Cross-Connection Control
3:30pm-3:45pm	Break
3:45pm-5:00pm	Cross-Connection Control, cont’d
5:00pm	Adjourn Day Three

## Agenda ~ Day 4: Sept. 25, 2009

8:00am-9:30am	Water Quality Considerations & Chemistry
9:30am-9:45am	Break
9:45am-11:00am	Disinfection
11:00am-12 noon	Chlorination Equipment
12 noon-1:00pm	Lunch provided
1:00pm-2:00pm	Safety Considerations
2:00pm-2:15pm	Break
2:15pm-3:15pm	Working Safely
3:15pm-3:30pm	Break
3:30p-4:30pm	Computer-based Post Test
4:30pm-5:00pm	Computer-based Post Test Review
5:00pm	Adjourn Course

# Water Distribution Systems Operator Level 2 and 3 Training Course

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## Agenda ~ Day 5: Oct. 20, 2009 State Exam Preparation

8:00am-8:30am	Welcome Back and Introductions
8:30am-9:30am	The Water Supply System: Review Equipment, Appurtenances
9:30am-9:45am	Break
9:45am-12 noon	Distribution System Mathematics
12 noon-12:30pm	Lunch provided
12:30pm-2:00pm	Distribution System Monitoring, Troubleshooting and Problem Solving
2:00pm-2:15pm	Break
2:15pm-3:15pm	Practice Exam in Computer Lab
3:15pm-3:30pm	Break
3:30p-5:00pm	Review Practice Exam, Math, Q&A Session
5:00pm	Adjourn Course

## Group Discount:

- 10% off each registration when 3 or more from the same company register for the same class.
- 15% off each registration when 7 or more from the same company register for the same class.

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## Instructors

### **Glynn Stoffel, CET, Lead Instructor**

*GLS Environmental Associates*

Glynn is an environmental training consultant with over thirty years experience in operating and managing water distribution and wastewater collection systems. He is recognized as a Certified Environmental Trainer (CET) by NESHTA and has delivered thousands of hours of training to industry personnel throughout the country. Glynn teaches a variety of courses for the TREEO Center in the operation and maintenance of utility infrastructure.

### **Ron Trygar, CET**

*University of Florida TREEO Center*

Ron is the Senior Training Specialist for Water and Wastewater programs at the TREEO Center, and is responsible for the majority of water and wastewater related training. Ron instructs courses related to energy conservation at treatment facilities, activated sludge process control and troubleshooting, biological nutrient removal, microscopy, and a variety of exam review courses that help operators prepare for the State exams. Ron also teaches sections of the Water Facility Security and Water Distribution courses, he is also the instructor of the UF Department of Continuing Education correspondence and on-line Class C Drinking Water Operator course.

Ron has worked in the water and wastewater treatment industry for more than twenty-five years in a variety of locations and jobs, and has been providing training to water and wastewater operators for more than ten years. Ron is a member of the FDEP Operator Certification Program Exam Review Committee, a member of WEF, FWEA and FW&PCOA, and on the Board of Certification for NESHTA.

### **Les O'Brien**

*University of Florida TREEO Center*

Les retired from Gainesville Regional Utilities after 22 years in the water engineering department, where he was the cross-connection control supervisor from 1982 to 1990.

Les has been the lead instructor for backflow prevention and cross-connection control courses in Florida since 1983 and has been responsible for training instructors of backflow prevention tester training programs throughout the United States.

Les is a past president of the American Backflow Prevention Association. He is currently a member of the association's certification committee. He received the ABPA Meritorious Service Award in 2002. In 2002, he was named National Team Trainer of the Year by the National Environmental Safety and Health Training Association.

Les is also a Certified Backflow Prevention Assembly Repair Technician, Certified Instructor of Backflow Prevention Courses, Certified Cross-Connection Control Inspector, Certified Cross-Connection Control Program Manager and a Certified Advanced Backflow Tester.