

Basic Electricity

(6.0 CPE's for Water & Wastewater)

Dates & Locations

January 18, 2012
Town of Orange Public Works
235 Warren St.
Orange, VA 22960

February 15, 2012
Montgomery Co. PSA
755 Roanoke St.
Christiansburg, VA 24073

VRWA

2138 Sycamore Avenue

Phone: 540-261-7178

Fax: 540-261-2465

On the web: www.vrwa.org

Description

The Virginia Rural Water Association Electricity Course is a six (6) hour course designed to instill respect and remove fear for Water and Wastewater Operators. This course **will not** make electricians out of operators but will assist them in understanding the operation of much of their equipment and clarify when to call for professional electrical help.

The morning session will be entirely theoretical and will cover the following topics:

1. Static Electricity
2. Alternating and Direct Current
3. Current
4. Sources of Electricity
5. Electro-Magnets
6. Current Meters
7. Voltage
8. Current-Voltage Relationships
9. Transformer Theory
10. Phase
11. Resistance
12. Ohm's Law
13. Voltage Drop
14. Electrical Safety
15. Lock-Out/Tag-Out
16. Intro to Arc-Flash

The afternoon session will discuss the theory and operation of:

1. Fuses
2. Circuit Breakers
3. Lock-Out/Tag-Out
4. Fuse Checking
5. Circuit Breaker Operation
6. Motor Windings
7. Multimeter Operations
8. Multimeter Practicum

Instructor: Frank Nadeau, VRWA

Class Times : All locations 9:00 AM—4:00 PM
(1 hr. lunch on own)

Cost: Free

To Register: Visit the Training page on the VRWA website (www.vrwa.org) and follow the instructions for on-line registration (preferred) or complete the registration form on the back of this page and fax it to the VRWA office at 540-261-2465.

Quality On Tap!

Basic Electricity

Class Registration Form

Class Title:

Class Location: Class Date:

Name (as it appears on your license):

User ID: (First 3 Letters of your Last Name and Last 4 digits of your SSN—i.e. Smith = smi1234)

System/Organization:

Title (job):

Address:

Phone: _____ Fax: _____

Directions:

Christiansburg

Montgomery County Government Center
755 Roanoke Street
Christiansburg, VA 24073

From Main Street in Christiansburg: Go one mile east on Roanoke Street. The Government Center is on the right.

From Blacksburg: Take the 460 bypass (3A) to Route 11 in Christiansburg (the last exit before Interstate 81). Turn right at the bottom of the exit ramp onto Roanoke St. (Route 11). Go 1 mile and the Government Center is on the left.

From Interstate 81: Take Exit 118-C (Christiansburg). Go 2 miles South on Route 11 (Roanoke Street). The Government Center is on the left.

The main entrance to the building is by the flagpoles on the right side of the building.