

27th Annual North Carolina Waterworks Operators Spring School

March 27-31, 2017

Including Advanced Day

Wednesday, March 29, 2017

Foothills Higher Education Center - Morganton, NC

Presented for the NC Water Treatment Facility Operators Certification Board by the North Carolina Waterworks Operators Association in coordination with the Continuing Education Division of Western Piedmont Community College in Morganton, NC

Class Schedule for B & C Well and A, B & C Surface

Monday, March 27, 2017

1:00pm - 1:30pm Registration, Foothills Higher Education Center
1:30pm - 2:00pm General Session, Foothills Higher Education Center
2:00pm - 5:00pm Classes - Report to your assigned room.

Tuesday, March 28, 2017

8:00am - 5:00pm Classes - Report to your assigned room. Lunch will be provided.

Wednesday, March 29, 2017

8:00am - 4:00pm **EXHIBITS!!!** *Exhibit Hall open during Lunch and Breaks*
8:00am - 5:30pm Classes - Report to your assigned room. Lunch will be provided.
7:00pm - 9:00pm Review - Comfort Inn & Suites

Thursday, March 30, 2017

8:00am - 5:00pm Classes - Report to your assigned room. Lunch will be provided.

Friday, March 31, 2017

8:00am - 12:00pm Classes - Report to your assigned room.
12:00pm Certificates of Attendance Awarded

See page 5 for specific topics being **REVIEWED** in your class. Exact class agenda will be handed out at registration on Monday, March 27, 2017 for B & C Well and A, B & C Surface.

School **REGISTRATION FORM** must be received on or before **March 16, 2017**. Applications accepted on a first-come, first-served basis. Class sizes are limited.

WANT TO BE BETTER PREPARED TO TAKE YOUR CERTIFICATION EXAM? *On-Line Supplement for Certification Exam Review*

All attendees of NCWOA Certification Schools will be eligible to enroll in an online course that will supplement and enhance the materials presented in the week long class. The on-line supplement is an optional, web-based Moodle class that includes multiple practice tests, videos of worked math problems, copies of presentation materials for many of the topics presented in the week-long school and additional materials that will help you prepare for the certification exam. The on-line supplement will be available beginning with the first day of the week long school and will be accessible until the day of the first traditional certification exam after the school.

If you wish to participate in this program, please be sure that YOUR email address is included on your registration form. Please note the on-line supplement is optional and you do not need to complete it to receive credit for having attended a Board approved school. Individuals who register for the week long school will receive an email with directions on how to log in and access the class.



CHECKLIST

The following checklist is provided for your use to insure that you have taken the necessary actions to attend the School and be qualified to take the Exam.

- You can mail, fax, or email your **REGISTRATION FORM** and payment for School to:
Cindy Gall, NCWOA Comptroller
PO Box 4519, Emerald Isle, North Carolina 28594
Phone: 252-764-2094 ext. 2
Make check payable to: "NCWOA" or "North Carolina Waterworks Operators Association"
Application must be received on or before March 16, 2017. Receipt/Confirmation letter and map are sent to all students who pay in-full. If you do not receive a letter by March 23, 2017 call (252) 764-2094 ext. 2.
- Send **EXAM APPLICATION** and payment for \$50.00 to the NCWTFO Certification Board:
Visit the NCWTFO Certification Board's Website for exam applications (regular, electronic, apprentice) http://www.ncwater.org/files/pws/ncwtfocb/exam_application.pdf Phone: (919) 707-9040
- Make **HOTEL RESERVATIONS**. (See page below).
- Order **STUDY MATERIALS** (see pages 9-10). These materials are the references used for exam questions.
- READ** and **STUDY** recommended materials. Remember this school is intended as *REVIEW* of the various topics, so the more you have studies, the more the classes will benefit you.
BE SURE TO BRING A CALCULATOR TO ALL CLASSES.
- Individuals registering for the Lab Analyst Voluntary Certification Exam (Process Chemistry or Bacteriology), please refer to page 11.

REMINDER: Schedule your exam for 2017

Water Treatment Facility Operators Certification Board's 2017 Examination Schedule for Cross-Connection, All Levels of Surface, Well and Distribution, Regular and Apprentice.

Dates of Exams:

Thursday, February 23, 2017

Thursday, August 31, 2017

Thursday, May 25, 2017

Thursday, October 26, 2017

Location of Exams:

Lenoir Community College in **Snow Hill**

McKimmon Center in **Raleigh**

Collett Community Center in **Morganton**

HOTEL ACCOMMODATIONS

A block of rooms has been reserved in the name of the North Carolina Waterworks Operators School at the Comfort Inn & Suites in Morganton. Be sure to tell reservations that you will be attending the Waterworks Operators School.



Comfort Inn & Suites (headquarters)

1273 Burkemont Ave (exit 103),
Morganton, NC 28655, (828) 430-4000

Rate: Single: \$79.99 plus tax

Double: \$85.99 plus tax. Group rate deadline
is 3/10/17. Hot breakfast bar included.

Other hotels in Morganton (Call for rates)

Days Inn at exit 103, (828) 430-8778

Hampton Inn at exit 105, (828) 432-2000

MEETING SITES

All classes and Advance Day will be held at Foothills Higher Education Center in Morganton. (2128 South Sterling St., Morganton, NC 28655). Maps with confirmation/receipts will be mailed to all paid in full students. If you DO NOT get a confirmation/receipt by March 23, 2017, call (252) 764-2094 ext. 2.

To Waterworks Personnel;

NCWOA invites you to participate in the 27th Annual North Carolina Waterworks Operators Spring School at Foothills Higher Education Center in Morganton. We hope that you will make optimal use of your time and that you will benefit from the contacts and outstanding training opportunities which will be available during this week of intense review. It is most important that you complete an independent study of training material and manuals specified for your desired certification grade prior to the school. The school will provide you with a concentrated opportunity to share information and ideas about Public Water Supply Systems.

B-Well, C-Well, A-Surface, B-Surface, C-Surface, and Advanced Day courses of instruction in water treatment will be offered. The C-Well and C-Surface courses are designed to expand the knowledge of the operators with little or limited experience. The B-Well and B-Surface courses are intended for the operators who have completed the basic course, have more treatment facility experience, or are supervisory personnel. The A-Surface course is the most challenging and requires completion of the intermediate level work, plus several years of experience in a treatment facility.

If you plan to attend the school, please complete and return the enclosed registration form with payment. Acceptance of registration will be first-come-first serve until classes are filled. NO walk-in registrations will be accepted.

The next exam will be given on May 25, 2017. See page 2 for more details.

The dedication and faithfulness demonstrated by the NCWOA in conducting this School has reflected over the years the importance placed on quality drinking water standards and the protection of public health. We are very proud to present this 27th Annual Waterworks Operators Spring School in Morganton.

Again, on behalf of the NCWOA Annual Schools Committee, we invite you to attend the 27th Annual North Carolina Waterworks Operators Spring School March 27-31, 2017 and hope that your utility or business will take advantage of this week of valuable educational experience.

Sincerely,

Sandra Bradshaw
OWASA
Co-Chair Annual Schools Committee

Randy Hawkins
Charlotte Water
Treasurer, School Logistics

Cindy Gall
NCWOA
Comptroller

Mark Hahn
Public Water Supply
Co-Chair Annual Schools Committee

Christyn Fertenbaugh
Public Water Supply
Co-Chair Seminar Committee

Heather Cagle
NCWOA
Administrator

Julius Patrick
Greenville Utilities
President

Brad Whitman
Public Water Supply
Co-Chair Seminar Committee

Mike Richardson
NCWOA
Education Specialist

NCWTFO Certification Board



Training Tomorrow's Water Professionals Today

REGISTRATION INSTRUCTIONS & REQUIREMENTS

SCHOOL REGISTRATION FORM

To be completed by ALL students. Please complete one form per person. Please print or type. This form must be accompanied by a payment for the correct registration fee. We accept checks, cash, credit cards & money orders. Please make checks or money orders payable to "NCWOA" or "North Carolina Waterworks Operators Association." We do not accept Purchase Orders. Please be sure to enter all information requested on the form. Incomplete forms will delay your registration or may be returned. All attendees must be pre-registered and paid in advance.

CONFIRMATION/ACKNOWLEDGEMENT OF REGISTRATION

All participants who pre-register will receive a receipt/confirmation of their registration by mail. This acknowledgement will include specific information on the site and a map.

CERTIFICATES OF ATTENDANCE OR COMPLETION

At the conclusion of the event all participants, who have attended at least 75% of their classes, will receive a Certificate of Attendance. These certificates will document attendance for professional growth contact hour requirements and/or successful class completion. Participants must pick up their own certificate at the conclusion of the event. No certificates will be given out early, to another individual, or mailed.

REFUNDS

Refunds will be issued (minus a \$25 administrative fee), if the refund is requested, in writing, by March 16, 2017. Substitutions may be made. Please inform us as soon as possible of substitutions so appropriate certificates of attendance may be generated.

PARTIAL SOCIAL SECURITY NUMBERS (SS#)

NCWOA's seminar attendance/contact hour tracking program uses your partial SS# as a unique identification number for our use only. We use this number to verify who you are and to communicate to the NC Water Treatment Facility Operators Certification Board when reporting your seminar attendance/contact hour record. We do NOT use your partial SS# for any other purpose. Your partial SS# will NOT be given out to anyone else. If you will not allow us to use your partial SS#, please indicate "refused" on the partial SS# line. We will be happy to register you, however, we cannot guarantee accurate tracking of your attendance at these events.

MEMBER/NON-MEMBER STATUS

Only individuals who are current members of NCWOA are eligible for the member rate. Please refer to your membership card for your member #. We will verify registrations for eligibility and will return those who pay the incorrect amount. If you would like to become a member, please complete the membership application in this brochure and return with payment.

DONT FORGET! Sign up for our *On-Line Supplement for Certification Exam Review*

This supplement is optional and includes:

- Multiple practice tests
- Videos of worked math problems
- Copies of presentation materials for many topics presented at school
- and more

The on-line supplement will be available beginning with the first day of the week-long school and will be accessible until the day of the first traditional certification exam after the school. To sign up you must include our email address on the registration form. Individuals who register for the week-long school will receive an email with directions on how to log in and access the class.

SURFACE & WELL REVIEW TOPICS

A-SURFACE REVIEW TOPICS

Administration
Bacteriology
Coagulation & Flocculation
Corrosion Control
Disinfection & Disinfection By-Products
Distribution & Cross-Connection
Drinking Water Regulations & Rules
Fluoridation
Handling & Disposal of Process Wastes
Instrumentation
Iron & Manganese Removal
Lab Procedures & Sample Collection
Math
Maintenance
Plant Operations
Pumps
Safety
Sedimentation & Filtration
Taste & Odor
WTP Operator & Reservoir Management

B-SURFACE REVIEW TOPICS

Bacteriology
Coagulation & Flocculation
Corrosion Control
Disinfection & Disinfection By-Products
Distribution & Cross-Connection
Drinking Water Regulations & Rules
Fluoridation
Handling & Disposal of Process Wastes
Instrumentation

Iron & Manganese Removal
Lab Procedures & Sample Collection
Math
Maintenance
Plant Operations
Pumps
Safety
Sedimentation & Filtration
Taste & Odor
WTP Operator & Reservoir Management

C-SURFACE REVIEW TOPICS

Bacteriology
Coagulation & Flocculation
Corrosion Control
Disinfection & Disinfection By-Products
Distribution & Cross-Connection
Drinking Water Regulations & Rules
Fluoridation
Iron & Manganese Removal
Lab Procedures & Sample Collection
Math
Maintenance
Plant Operations
Pumps
Safety
Sedimentation & Filtration
Taste & Odor
WTP Operator & Reservoir Management
Jar Testing

B-WELL REVIEW TOPICS

Pumps
Instrumentation
Bacteriology
Iron & Manganese Removal
Corrosion Control
Lab Procedures & Sample Collection
Disinfection & Disinfection By-Products
Maintenance
Distribution & Cross-Connection
Math
Drinking Water Regulations & Rules
Membrane Processes
Fluoridation
Safety
Groundwater Hydrology
Softening
Handling & Disposal of Process Waste
Well Construction
Well-Water Chemistry

C-WELL REVIEW TOPICS

Pumps
Bacteriology
Corrosion Control
Lab Procedures & Sample Collection
Disinfection & Disinfection By-Products
Maintenance
Distribution & Cross-Connection
Math
Drinking Water Regulations & Rules
Operation of Small Water Systems
Groundwater Treatment Process
Safety
Groundwater Hydrology
Softening
Well Construction
Well-Water Chemistry



North Carolina Waterworks Operators Association MEMBERSHIP APPLICATION

MISSION STATEMENT: To provide knowledge, skills & educational opportunities for drinking water professionals; develop working relationships with other water treatment organizations; project a positive image and communicate the importance of safe drinking water.

NEW OR RENEWAL MEMBERSHIP APPLICATION – ANNUAL DUES \$25.00 for 2017

First Name: _____ Middle Initial: _____ Last Name: _____

Nick Name: _____ Social Security #: XX-XXX-_____ If Renewal, what is your NCWOA Member #: _____

YOUR Individual Operator Certification #: (Issued by NCWTFOCB) _____

Certificate(s) Held:

____ A-Surface ____ B-Surface ____ C-Surface ____ A-Well ____ B-Well ____ C-Well ____ D-Well

____ A-Dist ____ B-Dist ____ C-Dist ____ D-Dist ____ Cross-Connection

_____ Wastewater #'s & certificate type

____ None Yet ____ You Are Not an Operator & Do Not Plan to Become Certified.

PLEASE SELECT YOUR PREFERRED ADDRESS (This is where confirmations & membership info will be sent.)

____ Home Address: _____

City: _____ State ____ Zip _____ County: _____

____ Employer Name: _____

MAILING Address: _____

City: _____ State ____ Zip _____ County: _____

Work Phone: _____ Ext: _____ Fax: _____

Home Phone: _____ Cell Phone: _____

Email Address: _____

How would you like to receive your issues of Go With The Flow? Email _____ or Postal Delivery _____

How would you like to receive your Section Meeting notices? Email _____ or Postal Delivery _____

***NOTE:** Memberships are based upon a calendar year. Membership cards will be mailed with receipt. These cards will contain your name, membership number, and membership expiration date.

By Credit Card: ____ Visa ____ MC ____ Am Ex ____ Discover

Name on Credit Card: _____

Credit Card Number: _____

Exp Date: Month ____ Year ____ Security Code from back of card: _____

Cardholder Signature: _____

PLEASE SEND APPLICATION AND PAYMENT TO:

Cindy Gall, NCWOA Comptroller
PO Box 4519
Emerald Isle, NC 28594
Phone: 252-764-2094 ext. 2
Fax: 252-764-2095
Email:cindy@ncwoa.com

If cardholder is other than member, what email address should the CC receipt be sent to? _____

To ensure that you receive the emailed receipt, please add cindy@ncwoa.com to your email address book.

NCWOA USE: Amount _____ CK# _____ E S Processed _____



NORTH CAROLINA WATERWORKS OPERATORS ASSOCIATION

Spring School Registration Form

RECEIVED ON OR BEFORE MARCH 16, 2017

Please Print or Type

NAME (First, Middle, Last): _____

NICK NAME for TAG: _____ SOCIAL SECURITY #: XX-XXX-_____

EMPLOYER / ORGANIZATION: _____

ADDRESS FOR CONFIRMATION & MAP: _____

CITY: _____ STATE _____ ZIP _____ COUNTY: _____

WORK PHONE: _____ EXT: _____ FAX: _____

ATTENDEE'S EMAIL: _____

(Be sure to include if you would like access to NCWOA Moodle On-line supplement. Moodle log in and istructions will be sent to this email address.)

ATTENDEE'S INDIVIDUAL NCWOA MEMBER # *(must be included to be eligible for member rate)*: _____

NC WATER TREATMENT CERTIFICATE TYPE PRESENTLY HELD:

- AW BW CW DW AS BS CS
- AD BD CD DD CC/BF NONE YET

NC WATER TREATMENT CERTIFICATE # (OPERATOR ID #): _____

WASTEWATER CERTIFICATION # _____

PLEASE **CHECK** WHICH CLASS YOU ARE REGISTERING FOR AND **CIRCLE** RATE:

<u>CLASS TITLE</u>	<u>NCWOA MEMBER RATE</u>	<u>NON-MEMBER RATE</u>
<input type="checkbox"/> A-Surface (M-F)	\$ 200.00	\$ 250.00
<input type="checkbox"/> B-Surface (M-F)	\$ 200.00	\$ 250.00
<input type="checkbox"/> C-Surface (M-F)	\$ 200.00	\$ 250.00
<input type="checkbox"/> B-Well (M-F)	\$ 200.00	\$ 250.00
<input type="checkbox"/> C-Well (M-F)	\$ 200.00	\$ 250.00
<input type="checkbox"/> Advanced Day (Wednesday)	\$ 95.00	\$ 125.00

By Credit Card: ___ Visa ___ MC ___ Am Ex ___ Discover

Name on Credit Card: _____

Credit Card Number: _____

Exp Date: Month ___ Year ___ Security Code from back of card: _____

Cardholder Signature: _____

PLEASE SEND APPLICATION AND PAYMENT TO:

Cindy Gall, NCWOA Comptroller
 PO Box 4519
 Emerald Isle, NC 28594
 Phone: 252-764-2094 ext. 2
 Fax: 252-764-2095
 Email:cindy@ncwoa.com

If cardholder is other than attendee, what email address should the CC receipt be sent to? _____

To ensure that you receive the emailed receipt, please add cindy@ncwoa.com to your email address book.

NCWOA USE: Amount _____ CK# _____ E S Processed _____



NORTH CAROLINA WATERWORKS OPERATORS ASSOCIATION

Advanced Day Agenda

Wednesday, March 29, 2017

Morganton, NC

Plan Now for the Future! Emergency Preparedness & Alternative Technologies

EXHIBIT HALL OPEN FROM 8:00AM - 4:00PM

Session 1

8:30 am – 8:40 am	Welcome and Opening Remarks - <i>NCWOA Representative</i>
8:40 am – 9:25 am	Public Water Supply – Regulatory Update
9:25 am – 10:15 am	Interconnection Agreements - Buying & Selling Water

Break: 10:15 - 10:45

Session 2

10:45 am – 11:30 am	Emergency Planning - Plan and Practice Before a Major Event
11:30 am – 12:15 pm	Practical Experiences with the Public & Media after Major Events

Lunch – Provided on Site 12:15 – 1:30

Session 3

1:30 pm – 2:15 pm	Alternative Disinfectants (Ozone, UV, etc.)
2:15 pm – 2:45 pm	Practical Experience with Ozone or UV

Break: 2:45 – 3:05

Session 4

3:05 pm – 4:05 pm	Available & New Technologies for Membrane Treatment
4:05 pm – 4:50 pm	Practical experience with Membranes
4:50 pm	Certificates awarded certifications

This class has been pre-approved for 6 contact hours for drinking water certification.

Surface Water Systems - Book Order Form

Circle Material You Wish to Order
Form not valid after June 30, 2017

A, B, or C Surface Study Material	NCWOA Member Price	Non-Member Price
Water Treatment Plant Operator Vol. 1 (6th Edition)	\$61.00	\$66.00
Water Treatment Plant Operator Vol. 2 (6th Edition)	\$61.00	\$66.00
"Needs to Know" - A Study Outline for Water Plant Operators (2015)	\$6.00	\$11.00
Rules Governing Public Water Supplies (Green Book) (2015)	\$14.00	\$19.00
Rules Governing Water Treatment Facility Operators (Blue Book) (12/2012)	\$4.00	\$9.00
Entire set that includes all of the above needed for the A, B, or C Surface Exam	\$146.00	\$171.00

Lab Procedures Books <i>(Not Required for A-C Surface Exams)</i>	NCWOA Member Price	Non-Member Price
Basic Lab Procedures for Waterworks (2/2007)	\$13.00	\$18.00
Bacteriological Methods for the Analysis of Drinking Water (2011)	\$51.00	\$56.00

Subtotal: _____

Prices include NC Sales Tax.

Add Shipping and Handling Charges:	
For Book Order Totals	Add
Up to \$20.00	\$6.00
\$20.01 - \$40.00	\$8.00
\$40.01 - \$60.00	\$9.00
\$60.01 - \$80.00	\$10.00
\$80.01 - \$100.00	\$11.00
\$100.01 & Over	Add 12%

Total Amount Due (book charges + S/H charges) \$ _____

Employee Name: _____ NCWOA Member #: _____

Employer Name: _____

Address to **MAIL** Books To: _____

City, State, Zip Code: _____ County: _____

Phone: _____

***Note:** Most book orders will be mailed to you within 3 business days from the time of receipt by NCWOA. If you have not received your order within 10 days of the date you sent your request, please contact me at the number listed below.

****Note:** Please make checks payable to: "North Carolina Waterworks Operators' Association" or "NCWOA". We accept Checks, Cash, Money Orders or Credit Card. We do NOT accept Purchase Orders. Credit Card payments may be mailed, faxed or scanned but will not be taken over the phone.

By Credit Card: Visa MC Am Ex Discover

PLEASE SEND APPLICATION AND PAYMENT TO:

Name on Credit Card: _____

Cindy Gall, NCWOA Comptroller
PO Box 4519
Emerald Isle, NC 28594
Phone: 252-764-2094 ext. 2
Fax: 252-764-2095
Email: cindy@ncwoa.com

Credit Card Number: _____

Exp Date: Month _____ Year _____ Security Code from back of card: _____

Cardholder Signature: _____

If cardholder is other than member, what email address should the CC receipt be sent to you? _____

To ensure that you receive the emailed receipt, please add cindy@ncwoa.com to your email address book.

NCWOA USE: Amount _____ CK# _____ E S Processed _____

Well Water Systems - Book Order Form

Circle Material You Wish to Order
Form not valid after June 30, 2017

A, B, or C Well Study Material	NCWOA Member Price	Non-Member Price
Water Treatment Plant Operator Vol. 2 (6th Edition)	\$61.00	\$66.00
Small Water System Operations & Maintenance (5th Edition)	\$61.00	\$66.00
Ground Water "Needs to Know" - A Certification Study Guide for Groundwater Systems (2015)	\$6.00	\$11.00
Rules Governing Public Water Supplies (Green Book) (2015)	\$14.00	\$19.00
Well Construction Standards (Red Book) (10/2009)	\$6.00	\$11.00
Rules Governing Water Treatment Facility Operators (Blue Book) (12/2012)	\$4.00	\$9.00
Entire set that includes all of the above needed for the A, B, or C Well Exam	\$152.00	\$182.00

Lab Procedures Books <i>(Not Required for A-D Well Exams)</i>	NCWOA Member Price	Non-Member Price
Basic Lab Procedures for Waterworks (02/2007)	\$13.00	\$18.00
Bacteriological Methods for the Analysis of Drinking Water (2011)	\$51.00	\$56.00

Subtotal: *(Prices include NC Sales Tax)* _____

Add Shipping and Handling Charges:	
For Book Order Totals	Add
Up to \$20.00	\$6.00
\$20.01 - \$40.00	\$8.00
\$40.01 - \$60.00	\$9.00
\$60.01 - \$80.00	\$10.00
\$80.01 - \$100.00	\$11.00
\$100.01 & Over	Add 12%

Total Amount Due (book charges + S/H charges) \$ _____

Employee Name: _____ NCWOA Member #: _____

Employer Name: _____

Address to **MAIL** Books To: _____

City, State, Zip Code: _____

County: _____ Phone: _____

***Note:** Most book orders will be mailed to you within 3 business days from the time of receipt by NCWOA. If you have not received your order within 10 days of the date you sent your request, please contact Cindy Gall.

****Note:** Please make checks payable to: "North Carolina Waterworks Operators' Association" or "NCWOA". We accept Checks, Cash, Money Orders or Credit Card. We do NOT accept Purchase Orders. Credit Card payments may be mailed, faxed or scanned but will not be taken over the phone.

By Credit Card: Visa MC Am Ex Discover

PLEASE SEND APPLICATION AND PAYMENT TO:

Name on Credit Card: _____

Cindy Gall, NCWOA Comptroller
PO Box 4519
Emerald Isle, NC 28594
Phone: 252-764-2094 ext. 2
Fax: 252-764-2095
Email: cindy@ncwoa.com

Credit Card Number: _____

Exp Date: Month _____ Year _____ Security Code from back of card: _____

Cardholder Signature: _____

If cardholder is other than member, what email address should the CC receipt be sent to you? _____

To ensure that you receive the emailed receipt, please add cindy@ncwoa.com to your email address book.

NCWOA USE: Amount _____ CK# _____ E S Processed _____

NORTH CAROLINA WATERWORKS OPERATORS ASSOCIATION

**Examination for Laboratory Analyst Certification
Water Bacteriology OR Water Process Control Chemistry**

OBJECTIVE: The North Carolina Waterworks Operators Association is sponsoring a voluntary certification program for laboratory analysts. Certification will be given in the area of water process control chemistry.

Upon completion of a written examination, the analyst will receive a certificate. The certificate must be renewed every five years.

Water Bacteriology Examination Content: The examination will cover sampling techniques, quality control and media, equipment and techniques used in the water bacteriology laboratory. Knowledge of the Multiple Tube Fermentation Procedure, Membrane Filter Procedure, Colilert Procedure and Standard Plate Count Procedure is required.

Water Process Control Chemistry Examination Content: The examination will include safety, sampling techniques, conductivity, hardness, turbidity, chlorine, and selective electrode and spectrophotometric techniques.

EXAMINATION DATE: March 30, 2017 at 6:00 PM

PLACE: Foothills Higher Education Center

APPLICATION DEADLINE: March 22, 2017

FEE: \$20.00 (*Payable at time of the examination.*) Payment must be made by check or money order to: North Carolina Waterworks Operators Association (NCWOA) - NO CASH WILL BE ACCEPTED.

HOW TO APPLY: Each applicant must complete the application below, detach, and send to:

Drinking Water Lab Certification
Environmental Sciences Section
PO Box 28047
Raleigh, NC 27611-8047
Phone #: 919-807-8879
Fax #: 919-715-8611

DO NOT SEND FEE WITH APPLICATION

All applications will be accepted. No acceptance notification will be mailed. For additional information, contact Chris Goforth at 919-807-8871.

DETACH HERE AND RETURN

.....
Name: _____

Preferred Mailing Address: _____

City, State, Zip Code: _____

Employer: _____

Address: _____
Street or PO City State Zip Code

Please mark the examination you would like to take: () Bacteriology () Process Control Chemistry

Applicants Signature: _____

Heather Cagle, Administrator
N.C. Waterworks Operators Association
PO Box 4519
Emerald Isle, NC 28594

NON-PROFIT ORG
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Zip Code 56601
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NORTH CAROLINA WATERWORKS OPERATORS ASSOCIATION

27th Annual North Carolina Waterworks Operators School

March 27-31, 2017 & **Advanced Day** Wednesday, March 29, 2017

We Appreciate Our Corporate Sponsors! Look to them first for all of your industry needs.



Jack Moore & Associates, Inc.

