

**North Carolina
Waterworks Operators
June School**
June 13-17, 2022



Water & WW Operations

6 Credit Hours

Wednesday, June 15, 2022

**Hickory Metro Convention Center
Hickory, NC**

This school serves as a REVIEW of topics covered in the study manuals (see page 3) from which all exam questions are derived.

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

Monday, June 13, 2022

12:00pm - 1:00pm Registration, Hickory Metro Convention Center
1:00pm - 5:00pm Classes - Report to your assigned room

Tuesday, June 14, 2022

8:00am - 5:30pm Classes - Report to your assigned room.

Wednesday, June 15, 2022

8:00am - 5:30pm Classes - Report to your assigned room.

Thursday, June 16, 2022

8:00am - 5:30pm Classes - Report to your assigned room.

Friday, June 17, 2022

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

See page 6 for specific topics being **REVIEWED** in your class. Exact class agenda will be handed out at registration on Monday, June 13, 2022 for A, B & C Surface and C Well.

School **REGISTRATION FORM** must be received on or before **June 6, 2022**. Applications accepted on a first-come, first-served basis. Class sizes are limited.

Please Note: We will be combining some of the A & B Surface classes and some of the C-Surface and C-Well classes since both require knowledge of the same topics via the Needs To Know with some variations due to specific certification level.



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.

- Send Class Registration Form (see page 4) and payment for the SCHOOL to:
NCWOA
PO Box 5466, High Point, NC 27262
Phone: 252-764-2094 ext 1
Fax: 252-764-2095
Email: heather@ncwoa.com
**Make check payable to: "NCWOA"
or "North Carolina Waterworks
Operators Association."
Registration must be received by
June 6, 2022.**
- Send EXAM APPLICATION and check for \$50.00 to the NCWTFO Certification Board:
Visit the NCWTFO website for the electronic, apprentice or regular exam applications:
<http://deq.nc.gov/about/divisions/water-resources/operator-certification/drinking-water-operator-certification/dw-operator-certification-exams>. Phone: 919-707-9040

Exam Dates:
August 25, 2022 - Raleigh & Williamston August 26, 2022 - Hickory
(Applications must be postmarked by 7/27/22)

October 27, 2022 - Hickory, Raleigh & Williamston
(Applications must be postmarked by 9/27/22)
- Make hotel reservations – **Best Western Hickory. To make reservations, call 828-323-1150. Guest should request group title NCWOA Group Block.** *Special Note: A credit card authorization form must be completed and returned for guests that will not be physically traveling with their company organization credit card. Deadline for special group rate is June 6, 2022.*
- Information on books is listed on the next page. All exam questions are taken from the books listed on the next page. It is strongly recommended that study manuals are obtained prior to the start of school so that you can be better prepared for the topics covered.
- Read and study recommended materials. **Be sure to bring a calculator to ALL classes.**

REGISTRATION INSTRUCTIONS AND 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. 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.

RECEIPT/CONFIRMATION OF REGISTRATION

All participants who pre-register will receive a receipt/confirmation. This acknowledgement will include specific information on the site.

CERTIFICATES OF ATTENDANCE OR COMPLETION

At the conclusion of the event all participants, who have attended at least 80% 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 or to another individual.

REFUNDS

Refunds will be issued (minus a \$25 administrative fee), if the refund is requested, in writing, by June 6, 2022. Substitutions may be made. Please inform us as soon as possible of substitutions so appropriate certificates of attendance may be generated.

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.

How to get books for school

It is strongly recommended that study manuals are obtained prior to the start of school so that you can be better prepared for the topics covered.

Surface Water Treatment - Study Materials

Sacramento Manuals:

Website: <http://www.owp.csus.edu/> or call: (916) 278-6142

Water Treatment Plant Operator Vol. 1 – 7th Edition
Water Treatment Plant Operator Vol. 2 – 7th Edition
Small Water System Operation & Maintenance – 6th Edition

Rules Governing Public Water Systems (Green Book) (11/20)

Call 919-707-9100 or available for download from NCWOA website

Surface Water “Needs To Know” – A Certification Study Guide for Surface Water Systems (2021)

available for download from NCWOA website

Rules Governing Water Treatment Facility Operators (Blue Book) (12/12)

available for download from NCWOA website

All books available for download from NCWOA website are listed under Training - Books www.ncwoa.com

Well Water Treatment - Study Materials

Sacramento Manuals:

Website: <http://www.owp.csus.edu/> or call: (916) 278-6142

Small Water System Operation & Maintenance – 6th Edition
Water Treatment Plant Operator Vol. 1 – 7th Edition
Water Treatment Plant Operator Vol. 2 – 7th Edition

Rules Governing Public Water Systems (Green Book) (11/20)

Call 919-707-9100 or available for download from NCWOA website

Ground Water “Needs To Know” – A Certification Study Guide for Groundwater Systems (2021)

available for download from NCWOA website

Rules Governing Water Treatment Facility Operators (Blue Book) (12/12)

available for download from NCWOA website

Well Construction Standards (Red Book) (10/2009)

available for download from NCWOA website

WANT TO BE BETTER PREPARED TO TAKE YOUR CERTIFICATION EXAM?

Online 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 online 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.

If you wish to participate in this program, please be sure that YOUR email address is included on your registration form. Please note the online supplement is optional.

Individuals who register for the week-long school will receive an email with directions on how to log in and access the class.



NORTH CAROLINA WATERWORKS OPERATORS ASSOCIATION

June School Registration Form
RECEIVED ON OR BEFORE JUNE 6, 2022

Please Print or Type

NAME (First, Middle, Last): _____

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

EMPLOYER / ORGANIZATION: _____

ADDRESS: _____

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 instructions will be sent to this email address.)

By registering for this training event, you acknowledge that you have read and understand NCWOA's Code of Ethics statement which can be found at www.ncwoa.com

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)	\$ 330.00	\$ 390.00
<input type="checkbox"/> B-Surface (M-F)	\$ 330.00	\$ 390.00
<input type="checkbox"/> C-Surface (M-F)	\$ 330.00	\$ 390.00
<input type="checkbox"/> C-Well (M-F)	\$ 330.00	\$ 390.00
<input type="checkbox"/> Water & WW Operations (Wednesday training)	\$ 75.00	\$ 135.00

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:

Heather Cagle, NCWOA
PO Box 5466, High Point, NC 27262
Phone: 252-764-2094 ext 1
Fax: 252-764-2095
Email: heather@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 heather@ncwoa.com to your email address book.

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



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 \$50.00 for 2022

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 _____

____ 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.

****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 or faxed.

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:

Heather Cagle, NCWOA
PO Box 5466, High Point, NC 27262
Phone: 252-764-2094 ext 1
Fax: 252-764-2095
Email: heather@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 heather@ncwoa.com to your email address book.

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

Surface & Well Review Topics

WELL REVIEW CLASSES

A	B	C	Class Title
X	X	X	Administration
X	X	X	Bacteriology
X	X	X	Corrosion Control
X	X	X	Disinfection & Disinfection By-Products
X	X	X	Distribution Systems & Cross Connection
X	X	X	Drinking Water Regulations & Records
X	X	X	Fluoridation
X	X	X	Ground Water Hydrology
		X	Groundwater Treatment Processes
X	X		Handling & Disposal of Process Wastes
X	X		Instrumentation
X	X		Iron & Manganese Removal
X	X	X	Lab Procedures & Sample Collection
X	X	X	Maintenance
X	X	X	Math
X	X		Membrane Processes
		X	Operation of Small Water Systems
X	X	X	Pumps
X	X	X	Safety
X	X	X	Softening
X	X	X	Well Construction
	X	X	Well-Water Chemistry

SURFACE REVIEW CLASSES

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



HOTEL ACCOMMODATIONS

A block of rooms has been reserved in the name of the North Carolina Waterworks Operators School at the Best Western Hickory. Be sure to tell reservations that you will be attending the NC Waterworks Operators School.

Best Western Hickory
1520 13th Ave Dr SE
Hickory, NC 28602
Phone: 828-323-1150

Limited Number of Rooms Blocked – Special Group Rates -
Deadline June 6, 2022

To make reservations, your guests can call 828-323-1150.
 Guests should request NCWOA Group Block

\$89.00 Exterior King or Double

\$94.00 Interior King or Double

Special Note: We accept Credit and Debit cards for payment, checks if received 1 week prior to arrival. Credit Card Authorization forms will be needed if person reserving room will NOT be traveling with credit card used for payment - please request when making reservation. Pet rooms available on the exterior building (additional \$25.00 per pet fee). Smoking rooms available on the exterior building.

All classes and Advance Day will be held at Hickory Metro Convention Center in Hickory. (1960 13 Dr SE, Hickory, NC 28602). Confirmation/receipts will be sent to all paid attendees.



NORTH CAROLINA WATERWORKS OPERATORS ASSOCIATION

Training Day Agenda

Wednesday, June 15, 2022 in Hickory, NC

Water & Wastewater Operations

Session 1 - 9am - 12:00noon

Emerging Contaminants Status – (PFOS, DIOXINE, UCMR5, COVID)
USDA Rural Development Funding
Treatment Optimization for Water & Wastewater - Doing It Better

Lunch Break

Session 2 - 1:15pm-4:15pm

Public Communication - Dealing with Emerging Issues
Asset Management for the Water & Wastewater Industry - What does the future bring

Agenda is tentative and could be subject to change.

This class has been pre-approved for 6 contact hours for drinking water and/or wastewater certification.

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

