In this Catalog

This catalog contains registration materials for current schools, institutes, seminars, and the Academy for Water Professional Development. Please read the information related to each event carefully to make sure that you are signing up for the correct classes and are submitting paperwork by the appropriate deadlines. Class spaces are limited. Registrations are accepted on a first come, first serve basis according to receipt of completed registration (i.e., completed form and full payment). Incomplete forms will delay the processing of your registration. Online registration is available for most events.

CEU/PDH Credits

In an effort to make it easier to know which events are approved for which type of credit, we are now including icons next to each event. If an event is approved for credit, the icon corresponding to the approved credit will appear next to the event title. If an event is approved for multiple credits you will see multiple icons. See the key below:

- **WASTEWATER** - All Wastewater Technical Sessions are approved for contact hours for Wastewater Operators. For all sessions, if a topic is approved for wastewater operators a recycle symbol (pictured on the left) will appear next to the session title. Wastewater contact hours will only be given for attendance at sessions marked with the wastewater symbol.

- **WATER** - All Water Technical Sessions are approved for contact hours for Water Treatment Facility Operators/Distribution Operators/Cross Connection Backflow Operators. For all sessions, if a topic is approved for Drinking Water contact hours a faucet symbol (pictured on the left) will appear next to the session title. Drinking Water contact hours will only be given for attendance at sessions marked with the water symbol.

- **PROFESSIONAL ENGINEERS** - All Technical Sessions are approved for Professional Development Hours for registered Professional Engineers. For all sessions, if a topic is approved for PDHs a hard hat symbol (pictured on the left) will appear next to the session title. PDHs for Professional Engineers will only be given for attendance at sessions marked with the Professional Engineers symbol.

- **MAINTENANCE TECHNOLOGIST** - All Technical Sessions that are approved for Water or Wastewater are approved for Maintenance Technologist. For all sessions, if a topic is approved for certified Maintenance Technologist, a wrench symbol will appear (pictured on the left) next to the sessions title. Maintenance Technologist contact hours will only be given for attendance at sessions marked with the maintenance technologist symbol.
CONTENTS:

CEU/PDH Credit Key 1
About NC AWWA-WEA 3
G.R.O.W. 3
Registration Frequently Asked Questions 4
2019 Important Dates 4
3-Tiered Pricing Explanation 5
Seminars and Institutes 6
   Achieving Compliance with the America’s Water Infrastructure Act Seminar 7
   City of Raleigh Institute 7
   Drinking Water Rules and Regulations Seminar 8
   Wastewater Regulatory Trends and Emerging Technologies Seminar 8
Collection & Distribution Schools 10
Collection & Distribution School Vendor Show 12
Wastewater Operators School 14
Maintenance Technologist School & Exams 16
Exam Information 19
NC SLAM Membership Application 20
2019 Seminar, Institute, and School Registration Form 22
2019 Maintenance Technologist Exam Application 26
2019 Advance Book Purchase Form 28
What is NC AWWA-WEA

Formed in 1928, NC AWWA-WEA is a volunteer association operating jointly under one Board of Trustees as the North Carolina Section of the American Water Works Association (NC AWWA) and the North Carolina Member Association (MA) of the Water Environment Federation (NC WEA). We are dedicated to providing water and wastewater education, training, and leadership in an effort to protect public health and the environment. In striving to be the leading educational resource for water-related issues in North Carolina, we recognize the broad scope of the industry and its reach beyond water sources, treatment plants, and pipe systems and its importance in homes, businesses, and the community.

We have over 2,500 members in North Carolina representing municipal and private utilities, consulting engineering firms, government agencies, equipment suppliers, service providers, and representatives from academia. Working through a network of committees, our volunteers provide the foundation for all NC AWWA-WEA activities.

**OUR VISION**

*What we strive to achieve*

NC AWWA-WEA: THE leading educational resource for safe water in NC

**OUR MISSION**

*The purpose of what we do*

NC AWWA-WEA is dedicated to providing water education, training and leadership to protect public health and the environment.

Regional GROW meetings foster a sense of community among NC AWWA-WEA members, serve as an informal setting to introduce non-members to the benefits of membership, and increase communication and coordination among water professionals in the region and across North Carolina.

While the location and topic of each meeting will change, GROW meetings offer great food, and networking at an affordable cost.

G.R.O.W. events are open to everyone!

**2019 GROW Meetings**

<table>
<thead>
<tr>
<th>July 28, 2019</th>
<th>October 10, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piedmont Triad Area</td>
<td>Charlotte Area</td>
</tr>
</tbody>
</table>

Thank you for GROWing with us in 2019!
Registration Frequently Asked Questions

Current as of December 2015.

EARLY & ONSITE REGISTRATION RATES

Institutes & Seminars: The early registration deadline is listed with each event, BUT registrations are accepted on a first-come, first-served basis, therefore submitting your registration and payment before the early registration deadline does not guarantee you a space. If you want to register for a seminar on the business day before the event, please contact the NC AWWA-WEA office.

Webinars: The registration deadline is listed with each event, BUT registrations are accepted on a first-come, first-served basis, therefore submitting your registration and payment before the registration deadline does not guarantee you a space. Registration is not available after the deadline.

Online Courses: There is no registration deadline.

Schools & Conferences: Deadlines vary for each event.

SPECIAL REGISTRATION TYPES

Student Registration: The Student Registration Type is intended for high school students and individuals enrolled full-time at a community college or university. A student registration rate is not available for all events. If a student rate is available it will be included in the price list or on the registration form. Proof of full-time student status is required when registration form is submitted. A student ID is an acceptable form of proof.

Retired Member Registration: The Retired Member Registration Type is intended for members of AWWA, WEF, or NC SLAM who are retired and no longer employed in the water/wastewater industry. If a retired member rate is available it will be included in the price list or on the registration form.

REFUNDS & SWITCHES

Institutes & Seminars: Requests for refunds and to switch events must be received in writing by the deadline listed for the event.

Webinars: Requests for refunds and to switch events must be received in writing by the deadline listed for the event. Refunds will not be issued for attendees that experience technical or equipment failures during the webinar.

Online Courses: Requests for refunds or switches must be submitted within 5 business days of registering for a course, provided that the actual course has not been started. Refunds cannot be issued once a course has been started. Refunds will not be issued for learners discovering more than five business days after registering that they do not have the necessary or compatible equipment to participate. Refunds will not be issued for learners that experience technical or equipment failures while taking the course.

Schools & Conferences: Deadlines vary for each school.

All Events: Refund request forms may be obtained by calling the NC AWWA-WEA office at 919-784-9030 or downloaded from our website (www.ncsafewater.org). A $30 administrative fee will be charged for all refunds due to attendee cancellation. All refunds will be made according to the original payment method. Refunds will not be processed until the conclusion of an event. Please allow 2-3 weeks after the event to receive your refund.

Important Dates

~

Photo Contest Deadline
July 2, 2019

Western Collection & Distribution School
July 8 - 12, 2019 in Morganton, NC

Board Nominations Due
July 16, 2019

Achieving Compliance with the America’s Water Infrastructure Act of 2018 Seminar
July 18, 2019 in Cary, NC

Raleigh Institutes
July 23 and 24, 2019 in Raleigh, NC

Drinking Water Rules and Regulations Seminar
July 25, 2019 in Raleigh, NC

Western Maintenance Technologist School
August 5 - 8, 2019 in Morganton, NC

Western Biological Wastewater Operators School
August 5 - 9, 2019 in Morganton, NC

Maintenance Tech 4 Exam Window
August 5 - 19, 2019 - Virtual

Wastewater Regulatory Trends and Emerging Technologies Seminar 2019
August 21, 2019 in Raleigh, NC

Coastal Collection & Distribution School
September 30 - October 4, 2019 in Morehead City, NC

Wastewater Laboratory Analyst Certification Exams
October 15, 2019 in Wilson, NC

99th Annual Conference
November 3 - 6, 2019 in Raleigh, NC

ncsafewater.org
SUBSTITUTIONS

Institutes, Seminars, Most Schools, and Conferences: Substitutions may be made at any point, including during registration at the event. Please inform us as soon as possible so that we may have you complete the correct paperwork and handle any cost differences between members and non-members. Please be aware that if you choose to do substitutions during registration at the event, you will need to arrive early so that you have enough time to complete the process before the program begins.

Webinars: Substitutions must be processed two business days before the webinar.

Online Courses: Substitutions may be requested at any point during the 30 days after registration that the course is available, provided that the actual course has not been started. Substitutions cannot be issued once a course has been started.

SOCIAL SECURITY NUMBER

NC AWWA-WEA’s event attendance/contact hour tracking program uses the last 4 digits of your SS# in conjunction with your professional license number(s) as a unique identifier to verify who you are and to communicate to the appropriate agency when reporting your event 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 other than the appropriate reporting agency for your license. If you will not allow us to use the last 4 digits of your SS#, please indicate “refused” in the SS# blank. While we will be happy to register you, we cannot guarantee accurate tracking of your attendance at these events.

CERTIFICATES OF ATTENDANCE

Institutes & Seminars: Certificates of Attendance will be given to attendees who arrive on time and stay until the conclusion of the event. Each participant must pick up their own certificate at the conclusion of the event. NO certificates will be given out early, mailed, or given to another individual.

Webinars: After the webinar, staff will verify attendance records and produce a contact hour record for attendees. These records will be emailed to each attendee who has received contact hour approximately two weeks after the webinar.

Schools: Participants who successfully complete a school will receive a certificate of attendance at the end of the school. This certificate will document attendance for use in demonstrating contact hours for professional growth requirements for certified Wastewater Operators & Drinking Water Operators and PDHs for Professional Engineers. Refer to the appropriate section of this catalog for a definition of “successful completion” for each school. Each participant must pick up their own certificate at the conclusion of the event. NO certificates will be given out early or given to another individual. Certificates will be mailed to persons who successfully complete the school, but are not present at the end to pick up their certificates.

Conferences: After the conference, staff will verify all scanned information and produce a contact hour record for attendees. These records will be sent to each attendee who has received contact hours approximately 4 weeks after the conference. Records will be emailed for attendees who provide an email address and mailed to attendees without an email address.

PROHIBITION OF RECORDING

Recording of any sounds or visual images and use of any recording device or medium now known, or later developed, is prohibited at all NC AWWA-WEA seminars, schools, conferences, or other training events unless prior written permission has been expressly granted by NC AWWA-WEA.

3-Tiered Pricing Structure

In 2016 NC AWWA-WEA implemented a 3-tiered pricing structure for most of our events. The pricing for both the Spring and Annual Conferences will remain at the standard 2-tiered rate with one price for members and another for non-members.

The 3-tiered pricing structure provides an intermediate rate for employees of AWWA and WEF organization members that are utilizing their employer's organization membership number to register at a discounted rate. The shift in pricing more equally distributes the amount that individual members, employees of organization members, and non-members pay to receive services from NC AWWA-WEA.

Determining Where You Fit in the Pricing Structure

To help you budget your training dollars, individuals with an existing profile within our system can log in at anytime to determine their pricing category. Once you are logged in, go to “Profile Home” and look at the description directly under your name.

- Individuals listed as “NC State Level Association Members (SLAM)” or “NC AWWA or NC WEA Individual Member” will continue to receive the lowest Member Rate.
- Individuals listed as “Employee of NC AWWA or NC WEA Organization Member” will receive the Employee of a Utility Member Rate.
- Individuals listed as “Non-Member” will not receive a discount.

As you register for events, please pay careful attention to how your profile is labeled, and the rate you are paying. If you have any questions, or feel that your profile is labeled incorrectly, contact NC AWWA-WEA staff, 919-784-9030.

3-Tiered Pricing Structure

MEMBER RATE

- Eligible groups: Individual AWWA members, individual WEF members, NC SLAM members

EMPLOYEE OF A UTILITY MEMBER RATE

- Eligible groups: Employees of AWWA utility members or service provider members, employees of WEF corporate members - Rate will be $35 higher than the Member Rate

NON-MEMBER RATE

- Applies to all individuals that do not have any type of membership with AWWA, WEF, or NC SLAM - Rate will be $75 higher than the Member Rate
Seminars and Institutes

What Are Seminars and Institutes?

To keep up with the changing needs of our members and their employers, in 2015 we restructured our training programs. Seminars are topics chosen by our local committees and are open to anyone wishing to attend. Institutes include topics chosen by the utility hosting the event. While the majority of attendees at an institute will be employees of the host utility, there will always be seats reserved for non-host utility employees. The registration and attendance process for non-host employees is the same as our traditional seminar registration and attendance process.

What’s the Difference?

Institutes are hosted by utility companies, and seminars are sponsored by NC AWWA-WEA committees. BOTH are open to anyone wishing to attend!

How Do Institutes Work?

1. A utility contacts NC AWWA-WEA with potential dates, a location, and a list of preferred training topics.
2. NC AWWA-WEA works with the utility to negotiate a mutually beneficial date, location, agenda, and price.
3. NC AWWA-WEA committees prepare presentations on the agreed upon agenda topics and gain the appropriate CEU continuing education approvals.
4. The utility registers their employees to attend the Institute session.
5. After the event all attendees who meet the requirements will receive a certificate of attendance and, when applicable, continuing education credit.

Past Institute Topics

These topics represent a partial list of past Institute topics. Institutes topics are not restricted to this list. NC AWWA-WEA is happy to create presentations on topics to meet your specific needs.

- Best Practices for Running a Successful Construction Project
- Blueprint Reading
- Construction Risk
- Trends in Water/Wastewater Emergency Preparedness
- Effective Utility Management
- Electrical Safety
- Environmental Management System Overview
- Generators and Switch Gear
- Going Green
- High Performance Coatings for Water/Wastewater Applications
- Internal/External Customer Service

Host an Institute

If you are interested in hosting an institute training in 2019 please contact Derek Dussek at 919-463-3026 or DussekD@bv.com.

Schedule a Seminar

If you are interested scheduling a seminar through an NC AWWA-WEA Committee please contact Derek Dussek at 919-463-3026 or DussekD@bv.com.
Achieving Compliance with the America’s Water Infrastructure Act of 2018 Seminar

Thursday, July 18, 2019
Springhill Suites
1128 Ledsome Ln
Cary, NC 27511

Registration

Deadlines: Final deadline to register is 7/5/2019. If you plan to register onsite, call the day before the seminar to determine availability.
Price: $150 (member), $185 (employee of utility member), $225 (non-member)

Agenda Topics (6 Credit Hours)

This 6-hour seminar will be comprised of 5 modules:
• Regulatory Background
• G430-14, Security Practices for Operation and Management
• J100, Risk and Resilience Management of Water and Wastewater Systems
• G440-17, Emergency Preparedness Practices and M19, Emergency Planning for Water and Wastewater Utilities
• Compliance Strategies

Continuing Education

• Water Treatment Facility Operators, Distribution Operators, Cross Connection/Back Flow Operators: This seminar is approved for 6.0 contact hours for continuing education by the NCWTFOCB. Course ID: 176456
• Wastewater Operators: This seminar is approved by the WPCSOCC for 6.0 contact hours for continuing education. Course ID: CE11061503
• Professional Engineers: This seminar is approved for 6.0 PDH's.
• Maintenance Technologist: This seminar is approved for 6.0 contact hours for continuing education.

Direct Content Questions to
Perry Gayle, perry.gayle@aecom.com, 919-461-1295

Direct Registration Questions to
NC AWWA-WEA staff, 919-784-9030

City of Raleigh Institute

Tuesday, July 23, 2019 OR
Wednesday, July 24, 2019
Neuse River Resource Recovery Facility
8500 Battle Bridge Rd.
Raleigh, NC 27610

Registration

Deadlines: Final deadline to register is 7/12/2019. If you plan to register onsite, call the day before the seminar to determine availability.
Price: $150 (member), $185 (employee of utility member), $225 (non-member)

City of Raleigh Employees: Contact Maisha Williams to register.

Tentative Agenda (6 Credit Hours - Same content offered on both days)

8:25  Introduction
8:30-9:00  Conflict Resolution
9:00-9:30  Doing More with Less – Fiscal Responsibility
9:30-10:00  Safety Considerations on the Job
10:15-11:00  Neuse River RRF Bioenergy Recovery Program
11:00-11:30  Improving Energy Efficiency at Treatment Plants
11:30-12:00  Math for Operators
12:00–1:00  Lunch (Provided)
1:00-1:30  Drones
1:30-2:15  SCADA Made Simple
2:15-2:45  Pump Overview
3:00-4:00  Construction Documents for Utility Operators

Continuing Education

• Water Treatment Facility Operators, Distribution Operators, Cross Connection/Back Flow Operators: This seminar is approved for 6.0 contact hours for continuing education by the NCWTFOCB. Course ID: 165052
• Wastewater Operators: This seminar is approved by the WPCSOCC for 6.0 contact hours for continuing education. Course ID: CE01131501
• Professional Engineers: This seminar is approved for 6.0 PDH's.
• Maintenance Technologist: This seminar is approved for 6.0 contact hours for continuing education.

Direct Content Questions to
Lamya King, lking@hazenandsawyer.com

Direct Registration Questions to
NC AWWA-WEA staff, 919-784-9030
Drinking Water Rules and Regulations Seminar
Thursday, July 25, 2019

McKinnon Center
1101 Gorman St.
Raleigh, NC 27606

Registration
Deadlines: Final deadline to register is 7/12/2019, If you plan to register onsite, call the day before the seminar to determine availability.
Price: $150 (member), $185 (employee of utility member), $225 (non-member)

Tentative Agenda (6 Credit Hours)
7:30  Registration
8:30  Welcome and Announcements
8:40  ECERT – On-line Submittal Process
9:25  Level 1 and Level 2 Assessments
9:55  Break and Networking
10:15  Lead Service Lines and LCR On-line Document Submittals
10:45  Treatment Changes Under the Lead and Copper Rule and Misc. Compliance Tips
11:25  Potential Lead and Copper Rule Changes
12:55  Drinking Water Lab Certification Update: New Requirements from EPA
1:25  NC Policy Collaboratory Statewide PFAS Study: Preliminary Findings
1:55  America’s Water Infrastructure Act
2:25  US EPA Perfluoroalkyl Management Plan
2:30  UCMR4 Review of Occurrence Data Thus Far
2:55  Break and Networking
3:15  Ground Water Rule
3:45  Treatment Options for Emerging Contaminants: What is Happening in NC?

Continuing Education
• Water Treatment Facility Operators, Distribution Operators, Cross Connection/Back Flow Operators: This seminar is approved for 6.0 contact hours for continuing education by the NCWTFOCB. Course ID: 142976
• Professional Engineers: This seminar is approved for 6.0 PDH’s.
• Maintenance Technologist: This seminar is approved for 6.0 contact hours for cont. education

Direct Content Questions to
Rachel Monschein, rachel.monschein@townofcary.org, 919-362-5507

Direct Registration Questions to
NC AWWA-WEA staff, 919-784-9030

Wastewater Regulatory Trends and Emerging Technologies Seminar
Wednesday, August 21, 2019

McKinnon Center
1101 Gorman St.
Raleigh, NC 27606

Registration
Deadlines: Final deadline to register is 8/9/2019, If you plan to register onsite, call the day before the seminar to determine availability.
Price: $150 (member), $185 (employee of utility member), $225 (non-member)

Tentative Agenda (6 Credit Hours)
Coming soon! Check online for updates at ncsafewater.org/seminars.

Continuing Education
• Wastewater Operators: This seminar is approved by the WPCSOCC for 6.0 contact hours for continuing education. Course ID: CE01041701
• Professional Engineers: This seminar is approved for 6.0 PDH’s.
• Maintenance Technologist: This seminar is approved for 6.0 contact hours for continuing education.

Direct Content Questions to
Tony Martin, Anthony.Martin@ci.charlotte.nc.us, 704-336-1053

Direct Registration Questions to
NC AWWA-WEA staff, 919-784-9030
Nominate your co-worker, friend, mentor, or anyone you think deserves recognition for their accomplishments!

Visit www.ncsafewater.org/awards for more info! Nominations Due July 1
Collection and Distribution Schools

Western Collection & Distribution School
July 8 - 12, 2019 - Foothills Higher Education Center
2128 South Sterling St., Morganton, NC 28655

Coastal Collection & Distribution School
September 30 - October 4, 2019 - Carteret Comm College
3505 Arendell Street, Morehead City, NC 28557

Central Collection & Distribution School
March 2 - 6, 2020 - McKimmon Center
1101 Gorman St., Raleigh, NC 27606

PURPOSE/OBJECTIVE
The objective of the school is to REVIEW the basic concepts in the proper operation and maintenance of water distribution and wastewater collection systems. The curriculum will provide information that should be helpful in preparing a participant for the mandatory certification exams in Water Distribution, Backflow, and Wastewater Collection, and the voluntary certification exam for Meter Technician. Schools include course programs in: Water Distribution (C, B & A), Wastewater Collection (I, II, III, & IV), Backflow Prevention/Cross-Connection Control, Shoring and Meter Technician.

CLASSED OFFERED
Shoring
Backflow/Cross Connection
Distribution (C, B, & A)
Collection (I, II, III, & IV)
Meter Technician - ONLY offered at Central Collection & Distribution School.

CLASS LOCATIONS
Directions/map will be provided with your registration confirmation.

LODGING
Attendees are responsible for making their own reservations. Room blocks have not been reserved at these hotels. Prices are correct at the time of publication. Please call the hotel to confirm pricing and what is included with the rate.

COMFORT INN
1273 Burkemont Ave, Morganton, NC 28655 | 828-430-4000
2 Queen Beds $95.99 per night + tax / 1 King Bed $98.99 per night + tax

HAMPTON INN
115 Bush Drive, Morganton, NC 28655 | 828-432-2000
2 Queen Beds $163 per night + tax / 1 King Bed $173 per night + tax

DAYS INN
1100 Burkemont Ave, Morganton, NC 28655 | 828-430-8778
2 Double Beds $70 per night + tax / 1 King Bed $80 per night + tax

LUNCH & BREAKS
Short 10-15 minute breaks will be given throughout the day with refreshments available, and a one-hour lunch break will be given around noon. Lunch will be provided Monday - Thursday for students registered for a class taking place on that day.

IMPORTANT DEADLINES - Western School
Form and complete payment must be received on or before the following dates. Applications for all classes are accepted on a first-come, first-served basis. Class sizes are limited - especially the Backflow/Cross Connection class.

Early Registration Ends: June 7, 2019
Advanced Book Purchase Deadline: June 21, 2019
No Registrations Accepted After: June 21, 2019
Refund Deadline: June 21, 2019

VENDOR SHOW - Western School
When: Wednesday, July 10, 2019
Time: 11:30 a.m. - 1:30 p.m.
Vendors will be set-up from 10:30 a.m. - 2:00 p.m. Door prize drawings will take place after dinner.

Where: Foothills Higher Education Center
Who: All students registered for Backflow/Cross Connection, Collections I, II, III, & IV, Distribution C, B, & A, and Meter Tech are invited to attend.

For information on exhibiting, refer to pages 14, or contact the NC AWWA-WEA office at 919-784-9030.

Books/Needs to Know
It is highly recommended that students refer to the Advanced Book Purchase Form/Course Materials Guide on pages 28 - 29 and have access to the books that correspond to their class.

As of January 1, 2013, NC AWWA-WEA is no longer fulfilling book orders by shipment. School attendees may use the form on pages 28 - 29 to order their books in advance and pick them up at the school. Depending on inventory, there may be a limited number of books available for purchase at the school. If you would like to purchase books from another source, a list of potential book vendors is available at www.ncsafewater.org/page/Bookstore.

Please note, the appropriate Needs To Know Manual for each course is included in the registration fee and students will receive their manual when they arrive at school. Needs To Know Manuals are also available on https://www.ncsafewater.org/page/Bookstore and may be downloaded for free.
**COURSE DESCRIPTIONS**

### Backflow/Cross Connection

**Tentative Schedule**
- Monday: Registration 7:30 a.m., Class 8:00 a.m. - 4:30 p.m.
- Tuesday: 8:00 a.m. - 4:30 p.m.
- Wednesday: 8:00 a.m. - 4:30 p.m.
- Thursday: 8:00 a.m. - 4:00 p.m.
- Friday: 8:00 a.m. - 12:00 p.m.

**Contact hours**
- Approved for 25.0 contact hours for continuing education for wastewater operators by the NCWPCSOCC - Course ID: CE01160012. Must be present for entire class to receive certificate of attendance.
- Approved for 25.0 contact hours for continuing education for water operators by the NCWTFOCB Course ID: 091346. Must be present for 80% of class to receive certificate of attendance.
- Students who attend at least 80% of the class and DO NOT pass the practical exam are not eligible to take the state certification exam, but will receive a letter indicating the number of contact hours earned.

**Topics Include**
- Cross Connections, Confined Spaces, Repair and Troubleshooting, Residential Protection, Record Keeping, Safe Drinking Water Act Requirements, Pressure Vacuum Breaker, Operation and Testing, Reduced Pressure and Double Check Valve Assembly

**Please Note**
- CLASS SIZE IS LIMITED.
- Students need to bring several small screwdrivers, a calculator, and should dress for a wet lab environment.
- Textbook for this class is included in the class registration fee and will be given to students at the school. These books cannot be purchased through our bookstore.

### Shoring

Covers activities and dangers related to ditch cave-in and is explained in practical application of techniques using appropriate equipment for shoring.

**Tentative Schedule**
- Registration: Tuesday - 7:30 a.m., Class: 8:15 a.m. - 4:30 p.m.

**Contact hours**
- Approved for 6.0 contact hours for continuing education for wastewater operators by the NCWPCSOCC - Course ID: CE01310102. Must be present for entire class to receive certificate of attendance.
- Approved for 6.0 contact hours for continuing education for water operators by the NCWTFOCB - Course ID: 091349. Must be present for entire class to receive certificate of attendance.

### Update from the NCWTFOCB

The NC Water Treatment Facility Operator Certification Board may require certain additional conditions for certification reinstatement requests brought before the NCWTFOCB under 15A NCAC 18D .0309 (b). As of March 15, 2011 the Board may require a person to first satisfactorily complete the appropriate school conducted by the NCWTFOCB if his or her certificate has been expired, retired or revoked for more than five years from the date of Board's consideration request. Satisfactory completion of said school is in addition to any original school that was completed for the original certification. If you have any questions please contact the NCWTFOCB at 919-707-9040.

### Distribution C, B, and A

**Tentative Schedule**
- Wednesday: Registration 7:30 a.m., Class 8:00 a.m. - 5:15 p.m.
- Thursday: 8:00 a.m. - 5:15 p.m.
- Friday: 8:00 a.m. - 12:00 p.m.

**Contact Hours**
- Approved for 18.0 contact hours for continuing education for water operators by the NCWTFOCB. Must be present for 80% of class to receive certificate of attendance. See below for course ID for each course.

**Course Materials**
- Refer to the Course Materials Guide on pages 36-37 for a list of books suggested for these classes.
- **C-Distribution NCWTFOCB Course ID: 091347**
  - Topics Include: Safety, Erosion Control, Math, Quality Water, and Repair and Maintenance
  - Shoring is required to sit for the C-Distribution exam. As of October 2003, Collections I NO LONGER fulfills this requirement.
- **B-Distribution NCWTFOCB Course ID: 091345**
  - Topics Include: Math, Quality Water, Record Keeping, Repair and Maintenance, Safety, and System Integrity
  - Shoring is required to sit for the B-Distribution exam when the candidate is eligible to skip the C-Distribution exam. Please contact the NCWTFOCB at 919-707-9040 for more information.
- **A-Distribution NCWTFOCB Course ID: 091343**
  - Topics Include: Large Valves and Specialty Valves, Math, Quality Water, Repair and Maintenance, and Safety

### Collections I, II, III, and IV

**Tentative Schedule**
- Wednesday: Registration 7:30 a.m., Class 8:00 a.m. - 4:00 p.m.
- Thursday: 8:00 a.m. - 4:00 p.m.
- Friday: 8:00 a.m. - 12:00 p.m.

**Contact hours**
- Approved for 17.0 contact hours for continuing education for wastewater operators by the NCWPCSOCC. Must be present for 80% of class to receive certificate of attendance. See below for course ID for each course.

**Course Materials**
- Refer to the Course Materials Guide on pages 36-37 for a list of books suggested for these classes.
- **Grade I WPCSOCC ID: BE03241401**
  - Topics Include: Concepts & Terminology, Job Site Pre-Planning, Math, Public Relations, and Shoring & Underground Construction Safety
- **Grade II WPCSOCC ID: BE03241402**
  - Topics Include: Basic Traffic Control, Lift Station Basics, Math, Sewer Rehabilitation, and Root Control/Sewer Cleaning Techniques
- **Grade III WPCSOCC ID: BE03241404**
  - Topics Include: Lift Station Design & Maintenance, Maps & Record Keeping, Math & Hydraulics, and Sewer Cleaning & Maintenance Systems
- **Grade IV WPCSOCC ID: BE03241403**
  - Topics Include: Hydraulic Design, Lift Stations, Math, Sewer Rehabilitation, Supervision & Interviewing, and Testing Systems for Acceptance
The North Carolina American Water Works Association and Water Environment Association (NC AWWA-WEA) presents three exhibit opportunities from our Collection & Distribution School Committee at three Collection & Distribution Schools at different locations throughout the year:

**Western Collection & Distribution School**
July 8 - 12, 2019
Morganton, NC

**Coastal Collection & Distribution School**
September 30 - October 4, 2019
Morehead City, NC

**Central Collection & Distribution School**
March 2 - 6, 2020
Raleigh, NC

At each of these schools we host a Vendor Show on Wednesday to give attendees an opportunity to meet with their fellow students, instructors and vendors. We invite you to display products targeted towards Collection System Operators, Distribution System Operators, Meter Technicians, and Backflow/Cross-Connection Operators. Spaces can be reserved for a fee of $150 (non-refundable) per Collection & Distribution School.

Applications are currently being accepted for exhibiting at the Western Collection & Distribution School in Morganton, NC. Applications for the Coastal and Central schools will be available later in 2019. The 2019 Collection and Distribution School Exhibit Rules and Regulations printed on this page should address any questions that you may have. Please complete the application and return it with your fee. Your space cannot be guaranteed until your fee and application have been received.

For questions about this application and payment, contact Erin Bowers at 919-784-9030.

---

**GENERAL EXHIBIT RULES & REGULATIONS**

The North Carolina Section of the American Water Works Association and the North Carolina Water Environment Association (NC AWWA-WEA) will assign space to exhibitors based on the judgment of the Collection & Distribution School committee.

Exhibit space is being provided with the understanding that the NC AWWA-WEA and/or any hosting location are not liable for any occurrences due to negligence of the exhibitor. Exhibitors agree to maintain such insurance that will fully protect the NC AWWA-WEA from any and all claims of any nature, including claims under the Workers' Compensation Act and for damages for personal injury, including death, which may arise in connection with the operation of the exhibitor's display and which is caused by negligence of the exhibitor.

Exhibitors will abide by all other provisions of said rules and regulations, fire regulations and all other regulations of government agencies and/or any hosting location.

Exhibitors will make their own arrangements for delivery and receipt of any shipments related to their exhibit.

Exhibitors will make their own arrangements for any special audio-visual equipment they should require.

The NC AWWA-WEA and its authorized representative(s) reserve the right to request modification of any questionable exhibit.

**EXHIBIT SPACE DESCRIPTION**

Each exhibit space will include:

- Covered 6 foot table and 2 chairs
- Electrical service is available upon request (Please indicate on your application if you need electricity.)
- Printed copy of Collection & Distribution School attendance list
- Meal during the show

Each exhibitor may provide their own sign for their exhibits.

Exhibitors are reminded that NC AWWA and NC WEA are nonprofit organizations. Therefore, the provision of exhibit space is for product education and training purposes only. Direct sales are strictly prohibited.

Exhibits must be set-up between 9:30 a.m. - 11:15 a.m. and broken down between 1:30 p.m. - 2:30 p.m.

**APPLICATION AND PAYMENT**

Receipt of Exhibit Space Application AND complete $150 (non-refundable) fee per school is required to reserve a space. Only one space will be allowed per company.

In the event of a cancellation of an exhibitor, NC AWWA-WEA will make space available to another party requesting exhibit space based on the order in which the requests were received.
2019 Western Collection & Distribution School, Vendor Registration Form

**Instructions**
To submit a registration complete all requested information on the vendor form and mail to the above address or fax to the number provided above. The form and $150 payment must be submitted together. Faxed registrations must be paid by credit card. Online registration is available at www.ncsafewater.org. Credit card payment is required for online registration. Spaces will not be reserved until the form and $150 payment are received. At this time exhibit registrations are only being accepted for the Western Collection & Distribution School.

**Event Details**
$150 non-refundable fee includes:
- One exhibit booth in the 2019 Western Collection & Distribution School Vendor Show on Wednesday, July 10, 2019
- Covered 6 foot table and 2 chairs
- Electrical service is available upon request
- Printed copy of Collection & Distribution School attendance list
- Lunch during the show

**Company Information**
Company: _____________________________
Contact Person Name: _____________________________
Mailing Address: ____________ ____________ ____________
City: _____________________________ State: ______ Zip Code: ______
Phone: ______ Fax: ______
Email: _____________________________

**Booth Information**
Products to be exhibited:
__________________________________________________________________________
__________________________________________________________________________

Do you need electricity in your booth? ___Yes ___No

Names of Booth workers for name tags:
__________________________________________________________________________
__________________________________________________________________________

Item(s) donated for door prizes:
__________________________________________________________________________
__________________________________________________________________________

**Receipt/Confirmation**
Confirmations are EMAILED to the registrant. Confirmations will only be mailed to the registrant when an email address is not provided.

If you are registering for an event and do not receive confirmation of your registration, contact the NC AWWA-WEA office BEFORE the event to confirm your registration. Refunds and switches will NOT be granted to attendees who do not attend an event because they did not receive confirmation of their registration.

It is the responsibility of the person receiving the receipt/confirmation to forward as necessary. Duplicate copies of receipts may be printed from within your profile at www.ncsafewater.org. If you need the NC AWWA-WEA office to print a duplicate receipt, it may take up to five business days to process. A form for requesting a duplicate receipt may be obtained by visiting www.ncsafewater.org.

**Privacy Release**
As of January 2015, due to privacy issues, registration/membership information can no longer be provided via phone, email, or mail to anyone other than the participant without prior consent in writing.

To provide prior consent to share information in your profile, you may choose one of the following methods:
1. Log into your profile on www.ncsafewater.org and update the fields referencing Profile Access.
2. Complete the fields below and we will place the information in your profile.

Once you approve sharing of your information with the person named below, that person will have access to all information in your record. You may revoke or change this consent at any time in writing by emailing ebowers@ncsafewater.org.

Name of person: _____________________________
Phone: ______ Email: _____________________________
I authorize that my information may be shared with the person named above. I understand that it is my responsibility to revoke or change this authorization as necessary.

Print Name: _____________________________
Signature: _____________________________

**Payment**
- Cash
- Check/Money Order
- Credit Card (MasterCard, Visa, American Express)
- Check/Money Order
- Credit Card #: _____________________________
Exp. Date: ____________ 3-4 digit code: _____________________________
Cardholder Name: _____________________________
Billing Address (Where you receive your credit card statement):
City: _____________________________ State: ______ Zip Code: ______
Cardholder Phone: ______

**Cardholder Signature:**
I AUTHORIZE NC AWWA-WEA TO CHARGE $____________ TO THE CREDIT CARD NUMBER LISTED ABOVE.

**Exhibitor Agreement**
The North Carolina Section of the American Water Works Association and the North Carolina Water Environment Association (NC AWWA-WEA) is hereby authorized to reserve one space for the undersigned in the exhibit hall of the 2019 Western Collection & Distribution School Vendor Show on Wednesday, July 10, 2019 in Morganton, NC. We agree to accept the space assigned by the NC AWWA-WEA Collection & Distribution School Committee Representative(s). We have read, understand, and agree to comply with the 2019 Collection and Distribution School Exhibits Rules and Regulations that we received along with this application. We have enclosed the non-refundable fee of $150 per Collection & Distribution School.

Contact Person Signature: _____________________________
Date: ____________
Western Biological Wastewater Treatment Plant Operators School
August 5 - 9, 2019
Foothills Higher Education Center - Morganton, NC
2128 South Sterling St., Morganton, NC 28655

Early Registration Deadline: July 5, 2019
Advanced Book Purchase Deadline: July 5, 2019
Registration Opens: May 1, 2019
No Registrations Accepted After: July 19, 2019
Refund Deadline: July 19, 2019
Switch Deadline: April 12, 2019
Requests to switch schools must be received in writing. Registrants may only switch between the Eastern and Western Biological Wastewater Treatment Plant Operators Schools. A $15 administrative fee will be charged for each switch.

Eastern Biological Wastewater Treatment Plant Operators School
April 20 - 24, 2020
NCSU McKimmon Center - Raleigh, NC
1101 Gorman St., Raleigh, NC, 27606

Registration to open: January 2020

Physical/Chemical Wastewater Treatment Plant Operators School
April 21 - 24, 2020
NCSU McKimmon Center - Raleigh, NC
1101 Gorman St. Raleigh, NC, 27606

Registration to open: January 2020

CLASS LOCATIONS
All classes will take place at the addresses listed above. Directions/map to the appropriate location will be provided with your registration confirmation.

LODGING
 Attendees are responsible for making their own reservations. Room blocks have not been reserved at these hotels. Prices are correct at the time of publication. Please call the hotel to confirm pricing and what is included with the rate.

COMFORT INN
1273 Burkemont Ave, Morganton, NC 28655 | 828-430-4000
2 Queen Beds $95.99 per night + tax / 1 King Bed $98.99 per night + tax

HAMPTON INN
115 Bush Drive, Morganton, NC 28655 | 828-432-2000
2 Queen Beds $163 per night + tax / 1 King Bed $173 per night + tax

DAYS INN
1100 Burkemont Ave, Morganton, NC 28655 | 828-430-8778
2 Double Beds $70 per night + tax / 1 King Bed $80 per night + tax

WHAT’S INCLUDED WITH REGISTRATION
For all classes listed below short 10-15 minute breaks will be given twice a day with refreshments available.

<table>
<thead>
<tr>
<th>Biological WW School Grade</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC Biological Training Course Standards - Grades I &amp; II (Needs to Know)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NC Biological Training Course Standards - Grades III &amp; IV (Needs to Know)</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Lunch included (Mon. - Thurs.)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Lunch included (Friday)</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Books/Needs to Know
It is highly recommended that students refer to the Advanced Book Purchase Form/Course Materials Guide on pages 28 - 29 and have access to the books that correspond to their class.

As of January 1, 2013, NC AWWA-WEA is no longer fulfilling book orders by shipment. School attendees may use the form on pages 28 - 29 to order their books in advance and pick them up at the school. Depending on inventory, there may be a limited number of books available for purchase at the school. If you would like to purchase books from another source, a list of potential book vendors is available at https://www.ncsafewater.org/page/Bookstore.

Please note, the appropriate Needs To Know Manual for each course is included in the registration fee and students will receive their manual when they arrive at school. Needs To Know Manuals are also available on https://www.ncsafewater.org/page/Bookstore and may be downloaded for free.
SUCCESSFUL COMPLETION

Successful completion of these schools constitutes attendance at a minimum of 80% of the school's total class hours.

BIOLOGICAL WASTEWATER COURSE DESCRIPTIONS

These courses are designed to provide the individual with a general knowledge of the operation of wastewater treatment systems. The courses will provide the individual with knowledge of the laws and regulations related to wastewater treatment systems operation, and equipment usually employed in such plants, and the ability to describe the general operation requirements for such plants. This course is designed to assist the individual in preparation for the North Carolina Water Pollution Control System Operators Certification Commission Examination.

Biological Wastewater - Grade I
WPCSOCC Course ID: BE07110501

Tentative Schedule
Monday: Registration 7:15 a.m., Class 8:00 a.m. - 4:30 p.m.
Tuesday: 8:00 a.m. - 5:15 p.m.
Wednesday: 8:00 a.m. - 5:15 p.m.
Thursday: 8:00 a.m. - 5:15 p.m.
Friday: 8:00 a.m. - 11:15 a.m. (Lunch not included)


Biological Wastewater - Grade II
WPCSOCC Course ID: BE07110502

Tentative Schedule
Monday: Registration 7:15 a.m., Class 8:00 a.m. - 5:30 p.m.
Tuesday: 8:00 a.m. - 5:15 p.m.
Wednesday: 8:00 a.m. - 5:15 p.m.
Thursday: 8:00 a.m. - 5:15 p.m.
Friday: 8:00 a.m. - 3:00 p.m. (Lunch included)


Biological Wastewater - Grade III
WPCSOCC Course ID: BE07120501

Tentative Schedule
Monday: Registration 7:15 a.m., Class 8:00 a.m. - 5:15 p.m.
Tuesday: 8:00 a.m. - 5:15 p.m.
Wednesday: 8:00 a.m. - 5:15 p.m.
Thursday: 8:00 a.m. - 5:15 p.m.
Friday: 8:00 a.m. - 12:15 p.m. (Lunch not included)


Biological Wastewater - Grade IV
WPCSOCC Course ID: BE07120502

Tentative Schedule
Monday: Registration 7:15 a.m., Class 8:00 a.m. - 5:30 p.m.
Tuesday: 8:00 a.m. - 5:15 p.m.
Wednesday: 8:00 a.m. - 5:15 p.m.
Thursday: 8:00 am - 5:15 p.m.
Friday: 8:00 a.m. - 4:00 p.m. (Lunch included)

Maintenance Technologist School & Exams

Western Maintenance Technologist Schools & Exams - Class I, II, & III

August 5 - 8, 2019
Foothills Higher Education Center - Morganton, NC
2128 South Sterling St., Morganton, NC 28655
Early Registration Ends: July 5, 2019
Advanced Book Purchase Deadline: July 5, 2019
Switch Deadline: April 12, 2019
No Registrations Accepted After: July 19, 2019
Refund Deadline: July 19, 2019

Eastern Maintenance Technologist Schools & Exams - Class I, II, III, & IV

April 20 - 23, 2020
NCSU McKimmon Center - Raleigh, NC
1101 Gorman St., Raleigh, NC, 27606
Registration to open: January 2020

Maintenance professionals in the water and wastewater industry continue to be confronted with increasing technology challenges and changes requiring an extensive knowledge of the many facets of industrial maintenance. In order to stay abreast of these challenges, our profession needs to implement a continual program of education, reinforcement, and validation of the skills necessary to sustain our industry.

A maintenance training and certification program provides the ability to raise and validate knowledge and skills required to successfully perform maintenance activities according to current professional standards. Two four-day schools are being offered in 2019. Each school will consist of 3.5-days of instruction culminating in the opportunity for attendees to become certified by taking the Plant Maintenance Technologist Exam on the afternoon of the fourth day. The certification exam taken will correspond with the Class level taught at a particular school.

CLASS LOCATIONS

All classes will take place at the addresses listed above. Directions/mapping to the appropriate location will be provided with your registration confirmation.

LODGING

For lodging information for both schools, please refer to the lodging information for the Eastern & Western Biological Wastewater Schools located on page 14. Attendees are responsible for making their own reservations.

Books/Needs to Know

It is highly recommended that students refer to the Advanced Book Purchase Form/Course Materials Guide on pages 28 - 29 and have access to the books that correspond to their class.

As of January 1, 2013, NC AWWA-WEA is no longer fulfilling book orders by shipment. School attendees may use the form on pages 28 - 29 to order their books in advance and pick them up at the school. Depending on inventory, there may be a limited number of books available for purchase at the school. If you would like to purchase books from another source, a list of potential book vendors is available at https://www.ncsafewater.org/page/Bookstore.

Please note, the appropriate Needs To Know Manual for each course is included in the registration fee and students will receive their manual when they arrive at school. Needs To Know Manuals are also available online at https://www.ncsafewater.org/page/Bookstore and may be downloaded for free.

LUNCH & BREAKS

Each day short 10 minute breaks will be given throughout the day with refreshments available, and a one-hour lunch break will be given around noon. Lunch will be provided.

COMPLETION & CERTIFICATES OF ATTENDANCE

Participants must successfully complete a minimum of 80% of the approved contact hours (not including the exam). Those who complete 80% of the total contact hours will receive a Certificate of Attendance. This certificate will document attendance for use in demonstrating continuing education units (CEUs). Participants who complete 80% of the total contact hours AND pass the certification exam will receive a Certificate of Attendance in addition to their Maintenance Technologist Certification. Certificates of Attendance will be distributed before the exam and qualify as documentation to receive continuing education units (CEUs).

For information on approved contact hours, refer to the Continuing Education Credits (CEUs) section under each course description.

For individuals that pass the exam, Maintenance Technologist certificates will be mailed after the certification exams have been graded. Please allow 8-12 weeks to receive your exam results and/or certificate.

COURSE DESCRIPTIONS

Maintenance Technologist - Class I

Class I instruction covers the basics of maintenance. Subjects covered will include the importance of lubrication and the importance of frequent equipment monitoring followed by routine preventive maintenance (PM). Class I is geared toward the apprentice level person needing a foundation of terminology and the basic principles of PM. Basic math skills are required. Maintenance mechanics and technicians with experience may consider this level a review and preparation for the Class II exam to validate their knowledge.

Eligibility Requirements

- High school diploma, GED, or equivalent; and
- One year of acceptable maintenance experience in a water or wastewater system. Acceptable maintenance experience for Class I includes lubricating, performing readings, conducting rounds, and performing routine preventive maintenance.
- No substitution of education for experience shall be permitted.

It is highly recommended that students refer to the Advanced Book Purchase Form/Course Materials Guide on pages 28 - 29 and have access to the books that correspond to their class.

As of January 1, 2013, NC AWWA-WEA is no longer fulfilling book orders by shipment. School attendees may use the form on pages 28 - 29 to order their books in advance and pick them up at the school. Depending on inventory, there may be a limited number of books available for purchase at the school. If you would like to purchase books from another source, a list of potential book vendors is available at https://www.ncsafewater.org/page/Bookstore.

Please note, the appropriate Needs To Know Manual for each course is included in the registration fee and students will receive their manual when they arrive at school. Needs To Know Manuals are also available online at https://www.ncsafewater.org/page/Bookstore and may be downloaded for free.
Tentative Schedule
Monday: Registration 7:30 a.m., Class 8:00 a.m. - 5:00 p.m.
Tuesday: 8:00 a.m. - 5:00 p.m.
Wednesday: 8:00 a.m. - 4:45 p.m.
Thursday: Class 8:00 a.m. - 12:00 p.m., Lunch 12:00 p.m. - 1:00 p.m.,
Test Taking Skills & Exam 1:00 p.m. - 4:30 p.m.

Agenda Topics
Drawings, Electrical Devices and Concepts, Instrumentation,
Lubrication/Predictive Maintenance, Maintenance Administrative
Management, Maintenance Security Management, Materials/
Fasteners, Math, Motors and Drives, Pipes and Valves, Pressure
Vessels and Blowers, Pumps, Rotating Components, Safety, Safety
Practices, Tools/Hand, Tools/Precision.

Continuing Education Credits (CEUs)
Attendees must be present for 80% of the class in order to receive
CEUs. No partial credit will be given.

- The Class I school is approved for 23.0 contact hours for
continuing education for water operators, NCWTFO COURSE
ID: 091420
- The Class I school is approved by the Wastewater Commission
for 23.0 contact hours for continuing education for wastewater
operators, WPCSOCC COURSE ID: BE06290901
- The Class I school is approved for 23.0 PDH's for professional
engineers.

Maintenance Technologist - Class II
Class II instruction will build on the principles of preventive
maintenance covered in Class I by examining routine methods
of equipment tear-down, performing repairs, and installing or
reinstalling equipment. This level is a little more challenging for
both new and more seasoned maintenance personnel. Students
preparing for Class II should refer to the Needs to Know and
review the suggested readings well in advance of the school. Prior
knowledge of intermediate shop math concepts will be helpful for
this and subsequent certification levels.

Eligibility Requirements
- Hold an active Class I Maintenance Technologist Certificate, and
- Three years of acceptable maintenance experience in a water
or wastewater system with a minimum of two years performing
Class II duties. Acceptable maintenance experience for Class II
includes tearing down equipment, performing repairs, installing
and reinstalling; and
- Substitution of related education for experience shall be
permitted but shall not exceed 50% of the stated maintenance
experience requirement.

Tentative Schedule
Monday: Registration 7:30 a.m. - 8:00 a.m., Class 8:00 a.m. - 5:00 p.m.
Tuesday: 8:00 a.m. - 4:30 p.m.
Wednesday: 8:00 a.m. - 4:45 p.m.
Thursday: Class 8:00 a.m. - 12:00 p.m., Lunch 12:00 p.m. - 1:00 p.m.,
Test Taking Skills Exam 1:00 p.m. - 4:30 p.m.

Agenda Topics
Alignment, Blowers/Compressors, Boilers, Drawings, Electrical
Devices and Concepts, Instrumentation, Lubrication/Predictive
Maintenance, Maintenance Administrative Management,
Maintenance Security Management, Materials, Math, Motors and
Drives, Pipes, Valves and Tanks, Precision Instruments, Pumps,

Continuing Education Credits (CEUs)
Attendees must be present for 80% of the class in order to receive
CEUs. No partial credit will be given.

- The Class II school is approved for 23.0 contact hours for
continuing education for water operators, NCWTFO COURSE
ID: 091420
- The Class II school is approved by the Wastewater Commission
for 23.0 contact hours for continuing education for wastewater
operators, WPCSOCC COURSE ID: BE03311101
- The Class II school is approved for 23.00 PDH's for professional
engineers.

Maintenance Technologist - Class III
Class III is designed to demonstrate competency at the advanced
skilled and journey working level. More specifically, Class III
certification implies competence in the knowledge, skills, and
abilities required to perform the Core Competencies of an advanced
skilled and journey working level Maintenance Technologist.

Eligibility Requirements
- Hold an active Class II Maintenance Technologist certificate, and
- Successful completion of an NC AWWA-WEA Class III
Maintenance Technologist School, and
- Five years of acceptable maintenance experience in a water
or wastewater treatment facility, inspecting and supervising
Class I and II duties and analyzing and performing predictive
maintenance with a minimum of two years performing Class III
duties.
- Substitution of related education for experience shall be
permitted but shall not exceed 50% of the stated maintenance
experience requirement.

Tentative Schedule
Monday: Registration 7:30 a.m., Class 8:00 a.m. - 4:25 p.m.
Tuesday: 8:00 a.m. - 4:55 p.m.
Wednesday: 8:00 a.m. - 4:20 p.m.
Thursday: Class 8:00 a.m. - 11:20 a.m., Lunch 11:20 a.m. - 12:20 p.m.,
Test Taking Skills 12:20 p.m. - 12:50 p.m., Exam 1:00 p.m. - 4:00 p.m.

Agenda Topics
Advanced Lubrication/Predictive Maintenance, Advanced Materials,
Advanced Tools, Drawings, Electrical Devices and Concepts,
Instrumentation, Maintenance Management, Math, Motors and
Drives, Pipes and Valves, Pressure Vessels, Pumps, Rotating
Components, Safety

Continuing Education Credits (CEUs)
Attendees must be present for 80% of the class in order to receive
CEUs. No partial credit will be given.

- The Class III school is approved for 23.00 contact hours for
continuing education for water operators, NCWTFO COURSE
ID: 091420
- The Class III school is approved by the Wastewater Commission
for 23.00 contact hours for continuing education for wastewater
operators, WPCSOCC COURSE ID: BE03311101
- The Class III school is approved for 23.00 PDH's for professional
engineers.

*Please note Class III will only be offered at the Western
School in August in Morganton, NC.
Maintenance Technologist
- Class IV
Certified Maintenance Technologist IV Certification is designed to demonstrate competency at the Program Manager level whether as a Supervisor or Lead Person. More specifically, Class IV certification implies competence in the knowledge, skills, and abilities required to perform the job duties of a supervisory working and management level Maintenance Technologist.

Class IV will only be offered at the Eastern School taking place in April in Raleigh, NC.

Eligibility Requirements
- Hold an active Class III maintenance technologist certificate,
- Successful completion of an NC AWWA-WEA Class IV Maintenance Technologist School, and
- A minimum of seven years of acceptable maintenance experience, including a minimum of 1 year supervising others and 1.5 years of acceptable maintenance experience in water or wastewater systems. Acceptable, related maintenance experience may be used for the balance of the seven year requirement, but in any case such experience shall include a minimum of two years performing Class III duties and one year of supervising others. Acceptable maintenance experience and duties for Class IV include: inspecting and supervising Class I, II and III duties, recommending purchases, developing work and maintenance schedules and evaluating personnel performance. Participate in establishment of goals, objectives, policies and priorities. Preparation and presentation of staff reports and budgets. Design and administration of safety programs.
- Substitution of related education for experience shall be permitted but shall not exceed 50% of the stated maintenance experience requirement for Class IV.

Tentative Schedule
Monday: Registration 7:30 a.m. - 8:00 a.m., Class: 8:00 a.m. - 4:25 p.m.
Tuesday: 8:00 a.m. - 4:55 p.m.
Wednesday: 8:00 a.m. - 4:20 p.m.
Thursday: Class 8:00 a.m. - 11:20 a.m., Lunch 11:20 a.m. - 12:20 p.m.

Continuing Education Credits (CEUs)
Attendees must be present for 80% of the class in order to receive CEUs. No partial credit will be given.
- The Class IV school is approved for 23 contact hours for continuing education for water operators, NCWTFO COURSE ID: 091420
- The Class IV school is approved by the Wastewater Commission for 23 contact hours for continuing education for wastewater operators. WPCSOCC COURSE ID: BE03311103
- The Class IV school is approved for 23 PDH's for professional engineers.

Certification Exam
The testing window for Class IV is August 5 - 19, 2019. Participants who successfully complete the level IV class will receive information after the conclusion of the school about registering for an exam site. The exam will be a computerized test given at multiple sites around North Carolina.

JOIN US FOR THE
Achieving Compliance with the America’s Water Infrastructure Act of 2018 Seminar
Thursday, July 18, 2019
8:00 a.m. - 5:00 p.m.
Springhill Suites, Cary, NC

Earn 6 hours towards Water, Wastewater, PE, and Maintenance Tech

Topics will include:
Regulatory Background, G430-14, Security Practices for Operation and Management
J100, Risk and Resilience Management of Water and Wastewater Systems

Sign up today at ncsafewater.org/seminars
PARTIAL EXAM ELIGIBILITY REQUIREMENTS

All schools serve as a REVIEW for examinations and represent the minimum required training. Participants are reminded that success on a certification exam is a combination of education, specialized training, and actual experience in the field. Since all of the relevant material cannot be covered during the school, it is expected that participants will have studied extensively before the schools. All concepts covered on certification exams may NOT be covered at the school.

Please note that although successful completion of an approved school is a requirement to sit for any exam, it is not the only requirement. For a complete listing of the eligibility requirements for the exams, contact the appropriate agency.

DISTRIBUTION & BACKFLOW/CROSS CONNECTION EXAMS

Exams will not be given at the end of the school. For questions about exams, dates, locations, participation requirements, certification qualifications or to obtain an exam application call 919-707-9040 or visit www.ncwater.org/pws/.

COLLECTIONS, BIOLOGICAL WASTEWATER, & PHYSICAL CHEMICAL EXAMS

Exams will not be given at the end of the school. For questions about exams, dates, locations, participation requirements, certification qualifications or to obtain an exam application call 919-807-6353 or visit http://portal.ncdenr.org/web/wq/admin/tacu.

METER TECHNICIAN EXAM

NC AWWA-WEA will offer the Voluntary Meter Technician Certification Exam at the Central Collection & Distribution School, March 2 - 6, 2020. For more information on the Voluntary Meter Technician Certification Program and Exam, please visit https://www.ncsafewater.org/page/MeterTech or contact the NC AWWA-WEA office at 919-784-9030.

MAINTENANCE TECHNOLOGIST EXAM

In 2019 NC AWWA-WEA will offer exams for Classes I, II, and III will take place at the end of the August school in Morganton. The Class IV exam will be offered during the week of August 5 - 19, 2019. See page 14 for details.

For more information on Maintenance Technologist Certification Exams and exam retakes refer to https://www.ncsafewater.org/page/MaintTechSchool or contact the NC AWWA-WEA office at 919-784-9030.

Exams for Maintenance Technologist Class I, II & III will be held on the last day of the Maintenance Technologist School. A score of 70% or greater is required to pass the exam. If you require any specific testing accommodations due to the Americans with Disabilities Act (ADA), please notify us at least six (6) weeks in advance to ensure arrangements are completed in a timely manner.

Exam Retakes: Participants are eligible to retake the exam a maximum of three (3) times before having to retake the class. It is not necessary to qualify to attend the class again, only register to take the exam. A completed registration form along with payment would need to be received by the registration deadline.

For Class I, II & III: The Needs to Know Manual can be used as a study reference and is located on the MAINTENANCE TECHNOLOGIST CERTIFICATION & EXAM page. It may be downloaded at no additional cost.

For Class IV Exam: In addition to the Needs to Know Manual, candidates eligible for the Class IV exam retake will receive additional study materials once registered to take the exam.

MAINTENANCE TECHNOLOGIST CONTINUING EDUCATION

The continuing education requirement for Maintenance Technologist certificate holders is in effect for this year. Therefore, certification holders will need to complete a minimum of six (6) hours per year of continuing education for future renewals. When you submit your 2020 renewal, you will be required to provide documentation of training that is approved by the NC Department of Natural Resources for drinking water or wastewater. We will be posting more information on our website in the coming months to assist certificate holders.

VOLUNTARY WASTEWATER LABORATORY ANALYST EXAM

In 2019, NC AWWA-WEA will offer the Voluntary Wastewater Laboratory Analyst Exam in both March and October. For exact exam dates and locations, please refer to the Important Dates section of the Education Pipeline.

For more information about the Voluntary Wastewater Laboratory Analyst Certification Program & Exam, visit https://www.ncsafewater.org/page/WWLabExam or contact the NC AWWA-WEA office at 919-784-9030.
NC State Level Association (NC SLAM)
2019 Application & Renewal Form

NC AWWA-WEA
2841 Plaza Place, Suite 130, Raleigh, NC 27612
Phone: 919-784-9030 Fax: 919-784-9032 Website: www.ncsafewater.org

NC AWWA-WEA Membership offers you Connection, Education, & Leadership;
American Water Works Association (AWWA) Denver, CO 800.926.7337 www.awwa.org
Contact this national organization for more information regarding cost and how to join.
Water Environment Federation (WEF) Alexandria, VA 800.666.0206 www.wef.org
Contact this national organization for more information regarding cost and how to join.

NC AWWA-WEA
Complete the form below to join NC AWWA-WEA as a state-level (NC SLAM) member. NC SLAM members receive no benefits from AWWA or WEF.

Instructions
To submit a NC SLAM application by fax or mail complete all requested information on this form and mail or fax to the NC AWWA-WEA address or fax number provided above. Form and payment must be submitted together. Faxed applications must be paid by credit card. Applications and renewals may also be submitted online at www.ncsafewater.org. Online applications must be paid by credit card.

Please check ONE of the following options.

- New Membership ($75 for 1 year)
- Renew Membership ($75 for 1 year) NC SLAM #: ________
  - All new memberships and renewals are for 1 year (12 months).
  - SLAM memberships may not be shared or transferred.
  - Renewal reminders will be emailed to the member's email address 1 month before the membership expires.

Personal Information

Full Name: ________________________________
Preferred First Name: ___________
Last 4 Digits of SS #: __________ Year of Birth: ______

How Many Years Have You Worked in the Water/Wastewater Industry?
- Less than 1
- 1 - 5
- 6 - 10
- 11 - 20
- 21 - 30
- 30+

Employer Information

Employer: ________________________________________
Which of the Following BEST Describes Your Employer?

- Consulting/Contracting Firm
- Government Agency
- Research/Analytical Lab
- Student
- Utility
- Manufacturer/Distributor
- Manufacturer/Distributor
- Retired
- Unemployed
Other _______

Contact Information

Mailing Address (Home) (Work):
City: __________ State: ______ Zip Code: ______
County of Residence: __________________________
Phone: __________ Fax: ______
Email: __________________________

License/Certification Numbers

NC Wastewater Certification # (NCWPCSOC): ________________
NC Water Treatment Operator ID # (NCWTOCB): ________________
NC Professional Engineers #: ________________
NC AWWA-WEA Voluntary Maintenance Tech. Certification:
Class: ________ Certification #: ________________

Receipt/Confirmation

Confirmations are EMAILED to members. Confirmations will only be mailed to the member when an email address is not provided.
It is the responsibility of the person receiving the receipt/confirmation to forward as necessary. Duplicate copies of receipts may be printed from within your profile at www.ncsafewater.org. If you need the NC AWWA-WEA office to print a duplicate receipt, it may take up to five business days to process. A form for requesting a duplicate receipt may be obtained by visiting www.ncsafewater.org.

Privacy Release

As of January 2015, due to privacy issues, registration/membership information can no longer be provided via phone, email, or mail to anyone other than the participant without prior consent in writing.
To provide prior consent to share information in your profile, you may choose one of the following methods:
Log into your profile on www.ncsafewater.org and update the fields choosing Profile Access.
Complete the fields below and we will place the information in your profile.
Once you approve sharing of your information with the person named below, that person will have access to all information in your record. You may revoke or change this consent at any time in writing by emailing khoover@ncsafewater.org.

Name of person: __________________________
Phone: __________ Email: __________

I authorize that my information may be shared with the person named above. I understand that it is my responsibility to revoke or change this authorization as necessary.

Payment

- Cash
- Check/Money Order
- Credit Card (MasterCard/Visa American Express)

Credit Card #: ____________________________
Exp. Date: ________ 3-4 digit code: ___________
Cardholder Name: __________________________
Billing Address: At what address do you receive your credit card statement?
City: __________ State: ______ Zip Code: ______

Cardholder Phone: __________________________
Cardholder Signature: __________________________
I AUTHORIZE NC AWWA-WEA TO CHARGE $ __________ TO THE CREDIT CARD NUMBER LISTED ABOVE.
Dues are not deductible as charitable contributions for income tax purposes.

2019 Education Pipeline, Volume 2, Spring | Page 20
2019 Photo Contest

Submit photos online at ncsafewater.org/PhotoContest

Photos due July 2nd
2019 Seminar, Institute, & School Registration Form

NC AWWA-WEA
2841 Plaza Place, Suite 130 Raleigh, NC 27612
Phone: 919-784-9030  Fax: 919-784-9032  www.ncsafewater.org

Instructions
Before registering, please take time to completely review the General Registration Information on pages 15-16 as well as the section of this catalog related to the event for which you are registering.

To submit a registration by fax or mail complete all requested information on BOTH sides of this form and mail or fax to the address or fax number provided above. Form and payment must be submitted together. Faxed registrations must be paid by credit card. Online registration is available for most schools, institutes, and seminars at www.ncsafewater.org. Credit card payment is required for online registration.

If you are registering for the Maintenance Technologist class or exam you must also complete the appropriate exam application available in this catalog. Once all documentation is received, please allow up to 2 weeks for the application to be processed.

Personal Information
Full Name: __________________________
Preferred First Name (for name tag): __________________________
Last 4 Digits of SS #: __________________________  Year of Birth: __________________________
Number of Years in the Water/Wastewater Industry?

- Less than 1 year
- 1 - 5 years
- 6 - 10 years
- 11 - 20 years
- 21 - 30 years
- 30+ years

Employer Information
Employer: __________________________
Which of the Following BEST Describes Your Employer?

- Consulting/Contracting Firm
- Government Agency
- Research/Analytical Lab
- Student
- Utility
- Other __________________________

Contact Information
Mailing Address (Home or Work):
City: __________________________  State: ________  Zip Code: ________
County of Residence: __________________________
Phone: __________________________  Fax: __________________________
Email: __________________________

Emergency Contact Information
Name: __________________________
Relationship: __________________________
Phone: __________________________

License/Certification Numbers
NC Wastewater Certification #: (NCWPCSOC):
NC Water Treatment Operator ID #: (NCWTFOCB):
NC Professional Engineers #: __________________________
NC AWWA-WEA Voluntary Maintenance Tech. Certification:
Class: __________________________  Certification #: __________________________

Membership Numbers
Organizational Member Employees:
American Water Works Association (AWWA): __________________________
Water Environment Federation (WEF): __________________________
NC State Level Association Membership (SLAM): __________________________

Receipt/Confirmation
Confirmations are EMAILED to the registrant. Confirmations will only be emailed to the registrant when an email address is not provided. If you are registering for an event and do not receive confirmation of your registration, contact the NC AWWA-WEA office BEFORE the event to confirm your registration. Refunds and switches will NOT be granted to attendees who do not attend an event because they did not receive confirmation of their registration.

It is the responsibility of the person receiving the receipt/confirmation to forward as necessary. Duplicate copies of receipts may be printed from within your profile at www.ncsafewater.org. If you need the NC AWWA-WEA office to print a duplicate receipt, it may take up to five business days to process. A form for requesting a duplicate receipt may be obtained by visiting www.ncsafewater.org.

Privacy Release
As of January 2015, due to privacy issues, registration/membership information can no longer be provided via phone, email, or mail to anyone other than the participant without prior consent in writing. To provide prior consent to share information in your profile, you may choose one of the following methods:
- Log into your profile on www.ncsafewater.org and update the fields referencing Profile Access.
- Complete the fields below and we will place the info in your profile.

- I authorize that my information may be shared with the person named below, that person will have access to all information in your record. You may revoke or change this consent at any time in writing by emailing ebowers@ncsafewater.org.

Name of person: __________________________
Phone: __________________________  Email: __________________________
I authorize that my information may be shared with the person named above. I understand that it is my responsibility to revoke or change this authorization as necessary.

Print Name: __________________________
Signature: __________________________

Payment
Cash  Check/Money Order
Credit Card (MasterCard  Visa  American Express)
Credit Card #: __________________________  3-4 digit code: __________________________
Exp. Date: __________________________
Cardholder Name: __________________________
Billing Address: At what address do you receive your credit card statement?
City: __________________________  State: ________  Zip Code: ________
Cardholder Phone: __________________________
Cardholder Signature: __________________________

I AUTHORIZE NC AWWA-WEA TO CHARGE $_____________ TO THE CREDIT CARD NUMBER LISTED ABOVE.
### Western Collection & Distribution School — July 8 - 12, 2019, Morganton, NC

<table>
<thead>
<tr>
<th>Please CHECK the event for which you are registering and CIRCLE the correct registration fee.</th>
<th>Banquet Included</th>
<th>Class Days</th>
<th>Early Registration (NOW - 6/7/19)</th>
<th>Late Registration (6/8 - 6/21/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>____ Backflow/Cross Connection (includes Manual)</td>
<td>Yes</td>
<td>Mon-Fri</td>
<td>Member</td>
<td>Employee of Utility member</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$275</td>
<td>$310</td>
</tr>
<tr>
<td>____ Shoring</td>
<td>No</td>
<td>Tuesday</td>
<td>$115</td>
<td>$150</td>
</tr>
<tr>
<td>Collections:</td>
<td></td>
<td></td>
<td>$350</td>
<td>$400</td>
</tr>
<tr>
<td>___ I ___ II ___ III ___ IV</td>
<td>Yes</td>
<td>Wed-Fri</td>
<td>$215</td>
<td>$250</td>
</tr>
<tr>
<td>Distribution:</td>
<td></td>
<td></td>
<td>$320</td>
<td>$360</td>
</tr>
<tr>
<td>___ A ___ B ___ C</td>
<td>Yes</td>
<td>Wed-Fri</td>
<td>$215</td>
<td>$250</td>
</tr>
</tbody>
</table>

### Western Wastewater Operator Schools — August 5 - 9, 2019, Morganton, NC

<table>
<thead>
<tr>
<th>Please CHECK the event and the Class for which you are registering and CIRCLE the correct registration fee.</th>
<th>Class</th>
<th>Early Registration (NOW - 7/5/19)</th>
<th>Late Registration (7/6 - 7/19/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>____ Western Biological School</td>
<td></td>
<td>Member</td>
<td>Employee of Utility member</td>
</tr>
<tr>
<td>___ Grade I</td>
<td></td>
<td>$320</td>
<td>$350</td>
</tr>
<tr>
<td>___ Grade II</td>
<td></td>
<td>$330</td>
<td>$365</td>
</tr>
<tr>
<td>___ Grade III</td>
<td></td>
<td>$320</td>
<td>$355</td>
</tr>
<tr>
<td>___ Grade IV</td>
<td></td>
<td>$330</td>
<td>$365</td>
</tr>
</tbody>
</table>

### Western Maintenance Technologist School & Exam — August 5 - 8, 2019, Morganton,

<table>
<thead>
<tr>
<th>Please CHECK the class for which you are registering and CIRCLE the correct registration fee.</th>
<th>Early Registration (NOW - 7/5/19)</th>
<th>Late Registration (7/6 - 7/19/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>____ Class I*</td>
<td></td>
<td>Member</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$385</td>
</tr>
<tr>
<td>____ Class II*</td>
<td></td>
<td>$385</td>
</tr>
<tr>
<td>____ Class III*</td>
<td></td>
<td>$385</td>
</tr>
<tr>
<td>____ Class I* Exam Retake</td>
<td></td>
<td>$80</td>
</tr>
<tr>
<td>____ Class II* Exam Retake</td>
<td></td>
<td>$80</td>
</tr>
<tr>
<td>____ Class III Exam Retake</td>
<td></td>
<td>$80</td>
</tr>
</tbody>
</table>

*Exam application on page 26 must also be completed and submitted with registration form.*
Coastal Collection & Distribution School — September 30 - October 4, 2019, Morehead City, NC

<table>
<thead>
<tr>
<th>Please CHECK the event for which you are registering and CIRCLE the correct registration fee.</th>
<th>Banquet Included</th>
<th>Class Days</th>
<th>Early Registration (NOW - 9/6/19)</th>
<th>Late Registration (9/7 - 9/20/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>____ Backflow/Cross Connection (includes Manual)</td>
<td>Yes</td>
<td>Mon-Fri</td>
<td>$275</td>
<td>$310</td>
</tr>
<tr>
<td>____ Shoring</td>
<td>No</td>
<td>Tuesday</td>
<td>$115</td>
<td>$150</td>
</tr>
<tr>
<td>Collections: __ I __ II __ III __ IV</td>
<td>Yes</td>
<td>Wed-Fri</td>
<td>$215</td>
<td>$250</td>
</tr>
<tr>
<td>Distribution: ____ A ____ B ____ C</td>
<td>Yes</td>
<td>Wed-Fri</td>
<td>$215</td>
<td>$250</td>
</tr>
</tbody>
</table>

Seminar and Institutes

<table>
<thead>
<tr>
<th>Please CHECK the class for which you are registering and CIRCLE the correct fee.</th>
<th>Early Registration</th>
<th>Late Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>____ Achieving Compliance with the America’s Water Infrastructure Act of 2018 Seminar July 18, 2019 in Cary, NC</td>
<td>$105</td>
<td>$140</td>
</tr>
</tbody>
</table>

City of Raleigh Employees: Contact Maisha Williams

| ____ Institute Option 1 July 23, 2019 in Raleigh, NC | $105 | $140 | $180 | $150 | $185 | $225 |

City of Raleigh Employees: Contact Maisha Williams

| ____ Institute Option 2 July 24, 2019 in Raleigh, NC | $105 | $140 | $180 | $150 | $185 | $225 |

City of Raleigh Employees: Contact Maisha Williams

| ____ Drinking Water Rules and Regulations July 25, 2019 in Raleigh, NC | $105 | $140 | $180 | $150 | $185 | $225 |

Ends 6/28/19

| ____ Wastewater Regulatory Trends and Emerging Technologies August 21, 2019 in Raleigh, NC | $105 | $140 | $180 | $150 | $185 | $225 |

Ends 7/26/19

| ____ Institute Option 1 September 10, 2019 in Charlotte, NC | $105 | $140 | $180 | $150 | $185 | $225 |

Charlotte Water Employees: Contact Meredith Ward

| ____ Institute Option 2 September 11, 2019 in Charlotte, NC | $105 | $140 | $180 | $150 | $185 | $225 |

Ends 8/9/19

| ____ Institute Option 3 September 12, 2019 in Charlotte, NC | $105 | $140 | $180 | $150 | $185 | $225 |

Ends 8/23/19
Join the NC AWWA-WEA Board

The Nominating Committee is looking for members with a good knowledge of NC AWWA-WEA, commitment to the water/wastewater industry, strong leadership skills, and a desire to serve on the 2019-2020 NC AWWA-WEA Board of Trustees.

To nominate yourself or someone else, visit ncsafewater.org/boardnomination2019

All nominations must be submitted by July 16, 2019. Visit www.ncsafewater.org/board for more information.
**2019 Maintenance Technologist Exam Application**

**Name (First, Ml, Last):**

**Have you previously taken the Maintenance Technologist Exam?**
- Yes - Date ____________
- No

**Do you need assistance with testing? (Must provide documentation from a doctor.)**
- Yes - Date ____________
- No

**Demographic Information** Federal Law requires us to ask for this information.

- **Year of Birth:** __________
- **Sex:**
  - Male
  - Female
  - Prefer not to answer

- **Are you of Hispanic, Latino or Spanish origin:**
  - Yes
  - No
  - Prefer not to answer

**Required Education**

- **High School Graduate (Please include your diploma for Class 1):**
  - No
  - Yes
  - High School Equivalent/GED
  - Graduation Year: __________

**Additional Related Education** Attach additional sheets as necessary.

<table>
<thead>
<tr>
<th>Actively Enrolled</th>
<th>College or Institution</th>
<th>Related Course Work</th>
<th>Degree Earned or Years Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>From M / YR To M YR</td>
<td>Include City, State, &amp; Zip Code</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Experience** 1800 hours equals 1 year of experience. Attach additional sheets as necessary

<table>
<thead>
<tr>
<th>Actively Enrolled</th>
<th>Employer</th>
<th>Position and Duties</th>
<th>Hours Per Week of Related Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>From M / YR To M YR</td>
<td>Include City, State, &amp; Zip Code Supervisor, &amp; Phone Number</td>
<td>MUST be specific as related to maintenance</td>
<td></td>
</tr>
</tbody>
</table>

**Substituting Education For Experience**

- Are you applying for Class II or III **AND** substituting related education for experience.
  - No
  - Yes

**License/Certification** List all industry-related certifications. **IF YOU CURRENTLY HOLD A PLANT MAINTENANCE CERTIFICATION, ATTACH A COPY OF YOUR CERTIFICATE**

<table>
<thead>
<tr>
<th>Agency (i.e. State)</th>
<th>Type (include class or grade)</th>
<th>Number</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Applicant's Statement of Certification**

I certify that the information given is correct to the best of my knowledge. I have read the eligibility requirements and I believe that I am eligible for this level of certification.

*Applicant’s Signature:*

*Date: ____________________*

**Recommendation by Applicant’s Supervisor**

I have reviewed this application and verify that all statements are true and correct to the best of my knowledge. I also certify that the applicant has performed all the required activities and meets all the eligibility requirements for this certification. I therefore recommend this applicant be considered for the certification by the NC AWWA-WEA Board of Education and Examiners.

*Supervisor’s Name:*

*Job Title:________________________ Phone Number: ____________*

*Supervisor’s Signature:________________________ Date:________________________*

*Must be submitted with registration form on page 22-24.*
No Operator. No Water.

Show your support for water operators.
we.awwa.org/operator

Water Equation
Funding the Future of Water
Book Order Policies & Procedures
As of January 1, 2013, NC AWWA-WEA is no longer fulfilling book orders by shipment. Instead, we are offering school attendees the ability to purchase their books in advance of these events and pick them up onsite.

Depending upon inventory availability there may be a very limited number of books available for onsite purchase at schools. Once an item is sold out onsite, you should visit our website for a list of book vendors.

Book purchases are nonrefundable.

If you prefer to order the recommended books and receive them before the beginning of an event, a list of books with their ISBN numbers and potential vendors is available at www.ncsafewater.org/Bookstore.

Book Order Instructions
Complete BOTH sides of this form and mail or fax to the address or fax number provided above. Orders submitted by fax must be paid with a credit card.

Contact Information
This is the person to whom receipt will be sent and will be contacted if there are any questions about the order.

Full Name: ____________________________________________
Employer: ____________________________________________
Street Address: _________________________________________
City: ___________________ State: ______ Zip Code: ______
Phone: __________________ Fax: __________________
Email: ________________________________________________

Membership Numbers
For an order to qualify for the Member Rate the contact person listed above must be an individual member of AWWA, WEF or NC SLAM, OR the organization that employs the contact person must be an organizational member of AWWA or WEF. Membership numbers must be listed below and will be verified before an order is processed.

American Water Works Association (AWWA): ________________
Water Environment Federation (WEF): ________________
NC State Level Association Membership (SLAM): ________________

Privacy Release
As of January 2015, due to privacy issues, registration/membership information can no longer be provided via phone, email, or mail to anyone other than the participant without prior consent in writing.

To provide prior consent to share information in your profile, you may choose one of the following methods:
1. Log into your profile on www.ncsafewater.org and update the fields referencing Profile Access.
2. Complete the fields below and we will place the information in your profile.

Once you approve sharing of your information with the person named below, that person will have access to all information in your record. You may revoke or change this consent at any time in writing by emailing ebowers@ncsafewater.org.

Name of person: _______________________________________
Phone: __________________ Email: __________________
I authorize that my information may be shared with the person named above. I understand that it is my responsibility to revoke or change this authorization as necessary.
Print Name: _______________________________________
Signature: _______________________________________

Payment Method
Invoices and credit card receipts (if applicable) are sent to the person placing the order. It is that person's responsibility to forward the credit card receipt to the cardholder if necessary.

Select Payment Method
☐ Cash  ☐ Check/Money Order
☐ Credit Card  (☐ MasterCard/Visa  ☐ American Express)

Credit Card #: _______________________________________
Exp. Date: ___________ 3-4 digit code: ___________
Cardholder Name: _______________________________________
Billing Address:
At what address do you receive your credit card statement
_______________________________________________________
City: ___________________ State: _____ Zip Code: ______
Cardholder Phone: __________________
Cardholder Signature: _______________________________________

I AUTHORIZE NC AWWA-WEA TO CHARGE $ __________________
TO THE CREDIT CARD NUMBER LISTED ABOVE.

Pick Up Information
Please complete the information below. Once pickup times and locations for each event have been finalized, the contact person will be notified of the specific details. Person picking up items should bring a copy of the receipt with them for verification of purchase.

Person picking up books: _______________________________________
Event at which items will be picked up: _______________________________________

It is highly recommended that during a school, students have access to the books listed on the reverse side that correspond to the class that they are taking.
<table>
<thead>
<tr>
<th>Related Class</th>
<th>Book Title</th>
<th>Member Price</th>
<th>Non-Member Price</th>
<th>Quantity</th>
<th>Item Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wastewater Collection Operation &amp; Maintenance - Vol. 2 (Sacramento Manual)</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>NC Collections System Operator’s Needs to Know</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical/Chemical</td>
<td>Industrial Waste Treatment, Vol. 1 (Sacramento Manual)</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Industrial Waste Treatment, Vol. 2 (Sacramento Manual) **</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Pretreatment Facility Inspection (Sacramento Manual)</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Treatment of Metal Wastestreams (Sacramento Manual)</td>
<td>$65</td>
<td>$80</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Physical/Chemical Wastewater Operator’s Needs to Know</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution C, B, &amp; A</td>
<td>WSO Water Distribution - Grades 1 &amp; 2 (1st edition)</td>
<td>$95</td>
<td>$110</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>WSO Water Distribution - Grades 3 &amp; 4 (1st edition)</td>
<td>$95</td>
<td>$110</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td>Meter Technician</td>
<td>Water Meter - Selection, Installation, Testing, &amp; Maintenance - AWWA M6 Manual</td>
<td>$135</td>
<td>$140</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>NC Water Meter Needs to Know Manual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backflow/Cross Connection</td>
<td>Backflow Prevention: Theory and Practice</td>
<td></td>
<td>Kendall Hunt</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WSO Water Distribution - Grades 1 &amp; 2 (1st edition)</td>
<td>$95</td>
<td>$110</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>WSO Water Distribution - Grades 3 &amp; 4 (1st edition)</td>
<td>$95</td>
<td>$110</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td>Biological Wastewater I</td>
<td>Small Wastewater System Operation and Maintenance - Vol. 1 (Sacramento Manual)</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Small Wastewater System Operation and Maintenance - Vol. 2 (Sacramento Manual)</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td>Biological Wastewater I &amp; II</td>
<td>NC Biological Wastewater Treatment System Operators Training Course Standards - Grades I &amp; II (Also know as Grade I &amp; Needs to Know)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological Wastewater II, III, &amp; IV</td>
<td>Operation of Wastewater Treatment Plants - Vol. 1 (Sacramento Manual)</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Operation of Wastewater Treatment Plants - Vol. 2 (Sacramento Manual) **</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Advanced Waste Treatment (Sacramento Manual)</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td>Biological Wastewater III &amp; IV</td>
<td>NC Biological Wastewater Treatment System Operators Training Course Standards - Grades III &amp; IV (Also know as Grade III &amp; Needs to Know)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance Technologist</td>
<td>Pumps and Pumping</td>
<td>$70</td>
<td>$85</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Electric Fundamentals for Water and Wastewater</td>
<td>$72</td>
<td>$87</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Water Treatment Plant Operation, Vol. II **</td>
<td>$60</td>
<td>$75</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Industrial Maintenance, 3rd Edition</td>
<td>$115</td>
<td>$130</td>
<td>X</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Maintenance Technologist Class I - Needs to Know Manual &amp; Core Competencies</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maintenance Technologist Class II - Needs to Know Manual &amp; Core Competencies</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maintenance Technologist Class III - Needs to Know Manual &amp; Core Competencies</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All</td>
<td>Math Manual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ORDER TOTAL $ ____________________
Ready to take the next step in your career and become a member of NC AWWA-WEA?
Visit ncsafewater.org or see the NC SLAM membership application on page 19!

NC AWWA-WEA Membership

CONNECTION to a variety of industry professionals and resources to answer your questions.
EDUCATION to stay informed and support your professional certification or licensing.
LEADERSHIP opportunities to develop skills, advance your career, and shape NC AWWA-WEA.