

Operator Education Opportunities



Operator education is a key component of the Province of Newfoundland and Labrador's multi-barrier strategic action plan to ensure that the public is provided clean and safe drinking water. Operator education opportunities include, but are not limited to, the following:

Newfoundland and Labrador Operator Education, Training, & Certification Seminars

The Province regularly holds classroom-style education seminars at locations throughout the Province. The courses provide theory for proper operational practices and to prepare for certification exams. The courses cover topics such as distribution system basics, water quality issues, water treatment, wastewater collection, and wastewater treatment. The course schedule can be accessed using the following link:

http://www.mae.gov.nl.ca/waterres/training/operator_education/index.html

It should be noted that communities can apply for funding for operator training. Communities should contact Municipal Finance Division of Municipal Affairs and Environment. The form is also available from:

<http://www.mae.gov.nl.ca/training/index.html>

Newfoundland and Labrador Clean & Safe Drinking Water Workshops

Each year the Department of Municipal Affairs and Environment holds a free workshop in Gander to provide an opportunity for operators and administrators to learn about water treatment and disinfection. The event is typically held annually in late March. More information can be accessed using the following link:

http://www.mae.gov.nl.ca/waterres/training/drinking_water_workshop/index.html

Other Courses, Conferences, and Seminars

The Atlantic Canada Water & Wastewater Association (ACWWA) and the Maritime Provinces Water & Wastewater Association (MPWWA) both hold annual events featuring technical presentations, equipment trade shows, and treatment plant tours. Information about the conferences is available through their respective websites, listed below.

<http://acwwa.ca/conferences.html>

<http://www.mpwwa.ca/annual-training-seminar.html>

The ACWWA also holds courses throughout Atlantic Canada that cover a range of topics related to water and wastewater system operation. The full course schedule is available through the following link:

<http://acwwa.ca/courses/courseschedule.html>

Policy for Drinking Water Quality Monitoring and Reporting for Public Water Supplies

The Provincial policy for drinking water quality monitoring and reporting is provided in the Newfoundland and Labrador Water Quality Guidelines:

http://www.mae.gov.nl.ca/waterres/regulations/policies/water_quality.html

Guidelines and Technical Documents

Many guidelines and technical documents are available online. Several relevant documents are listed below:

- Canadian Drinking Water Quality Guidelines:
http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/sum_guide-res_recom/index-eng.php
- Canadian Drinking Water Quality Guideline Technical Documents:
http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index-eng.php#tech_doc

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Text Books

There are numerous textbooks available that cover a wide range of topics related to operation of water treatment, disinfection, and distribution systems. These can be purchased, or for members of the ACWWA, many are available through the ACWWA's Library. A sample of useful text books that are available through the ACWWA's library is provided below:

- AWWA Water Operator Field Guide (AWWA)
- Water Distribution Operator Training Handbook (AWWA)
- Basic Microbiology for Drinking Water Personnel (AWWA)
- Water Treatment Plant Operation—A Field Study Training Program, Vol. 1&2 (California State University)
- Water Chlorination/Chloramination Practices and Principles—Manual M20 (AWWA)
- Chlorine Safety (AWWA)
- Safety Practices for Water Utilities—Manual M3 (AWWA)
- Math for Water Treatment Operators (AWWA)
- Water Operator Certification Study Guide (AWWA)
- Asset Management: A Handbook for Small Water Systems (available free online from USEPA)

For a complete list of books and DVDs that are available through ACWWA's library, visit ACWWA's website using the following link: <http://acwwa.ca/library.html>

DVDs

There are many DVDs that cover the operation of water treatment, disinfection, and distribution systems. Like the textbooks, many are available to ACWWA members through the ACWWA's Library. A sample of relevant DVDs available through the ACWWA's library is provided below:

- Chlorine Safety
- Operator Math Made Easy
- Safety First: Pipe Handling for Field Crews
- Safety First: The Safety of Water Treatment Chemicals
- Safety First: Water Main Repair
- Water Supply Operations: Disinfection Strategies
- Water Supply Operations: Distribution Systems

For a complete list of books and DVDs that are available through ACWWA's library, visit ACWWA's website using the following link: <http://acwwa.ca/library.html>

Online Webinars and Videos

- ACWWA: has a database of archived webinars that are available 24/7 at a cost of \$25 per webinar for members or \$30 per webinar for non-members. They can be accessed using:
<http://acwwa.ca/webinars-archived>
- AWWA: routinely holds live webinars covering a range of topics. The cost for each webinar varies, but is typically in the range of \$120 (USD) for non-members, with a discounted rate for members. The list of upcoming webinars can be accessed using the following link:
<http://www.awwa.org/conferences-education/distance-learning/webinars.aspx>
- SmallWaterSupply.org: Access a number of informative YouTube videos relating to water and wastewater treatment
(<http://smallwatersupply.org/documents/featuredvideos/tabid/95/default.aspx>)