

WCWC is now offering the following new courses:

Course Name	Course Description	(CEUs)
Drinking Water Treatment & Troubleshooting Techniques	This course emphasizes recognition of warning signs and troubleshooting of various processes. Common problems associated with water quality fluctuations, dealing with disinfection by-products, emerging contaminants and waterborne disease outbreaks are covered in the course.	0.7
Membranes for Drinking Water Treatment	This course provides the technical background necessary to better operate membrane systems in drinking water treatment. The course covers membrane classification, performance, flow, and encompasses strong hands-on components to practice fouling control and membrane integrity testing (MIT). Please note: Due to the hands-on component using the membrane system, this course is held only at the Walkerton Clean Water Centre.	0.7
CT Requirements for Chlorine Disinfection	This one-day course will provide participants with knowledge of relevant chlorine chemistry and behaviour in practice in order to obtain a clear grasp of CT as a measure of chlorine exposure, microbial damage and disinfection logs.	0.7
Drinking Water Source Protection for Groundwater Systems	This course will provide participants with a general understanding of drinking water source protection for groundwater systems. It is based on the Clean Water Act (2006) and associated regulations and Directors Rules.	0.7
Energy Management in Drinking Water Systems	This course is designed to provide participants with the understanding and importance of Energy Management Planning and Energy Audits and provide practical approaches for reducing energy usage and costs while mitigating impacts of climate change.	0.7
Managing Water Quality in Distribution Systems	An understanding of drinking water quality issues in distribution and storage systems will be developed within the context of a source to tap approach. Drinking water treatment basics, as well as common microbiological and chemical/physical problems that arise in distribution systems will be discussed. Measures to detect, prevent and mitigate such problems will be detailed. Information will be provided on how to identify and manage risks specific to distribution systems.	0.7

Course Name	Course Description	(CEUs)
Cross Connection and Backflow Prevention	Participants will gain an understanding of the importance of a good water supply. They will review the provincial codes, legal aspects, and CSA standards. Students will also learn and understand why Backflow Preventers are necessary, how they are applied, and why it is important not to allow pollutants into potable water supply system.	0.7
Disinfection of Watermains	This one-day course is designed to provide participants with an understanding of the physical and chemical properties of the commercially available forms of chlorine and equipment used for watermain disinfection.	0.7
New Watermain Installation	This course is designed to provide an understanding of the installation of new watermains to include: types of piping, pipe selection, system design, safe excavation, pipe fittings installation, flushing and swabbing, chlorination and de-chlorination, pressure testing and methods for sampling, and the importance of good documentation.	0.7
Tapping Watermains	This course is designed to instruct operators on the procedures and methods for tapping watermains. The course delivery includes a hands-on component to practice tapping techniques discussed.	0.7
Watermain Breaks and Repairs	This course is designed to teach operators the various types of watermain breaks and the methods of leak detection. Participants will develop a plan for the detection, public notification, isolation, safe excavation, watermain repair, disinfection, flushing, pressure testing, bacteriological sampling, documenting, and returning the watermain to service.	0.7
Watermain Flushing and Swabbing	This course is designed to teach operators the different types of flushing and swabbing programs/procedures. Participants will learn how to plan a unidirectional flushing program. This course will also identify and explore other watermain cleaning techniques, such as swabbing, pigging and mechanical scraping.	0.7

For more detailed descriptions of these and other courses, please visit

<http://www.wcwc.ca/en/training/coursecatalogue.asp>