

Cross Connection/Backflow Assembly Tester Certification

Course Outline

Course Description

This 5-day (30 hour) course covers all aspects of cross connection control and backflow preventer assembly testing as published in the AWWA Canadian Cross Connection Control Manual and is followed by the BCWWA Backflow Assembly Testers Certification Exam.

Course Pre-requisites

There are no specific pre-requisites for this course. However, Grade 12 (or equivalent) math skills are an asset. Math upgrades are available –contact us.

Continuing Education Units (CEUs)

This course is accepted with EOCP as core for WWC - WD - WWT - WT - SWWS – SWS - BWD for 3.0 CEUs.

Course Duration

- 5 days
- 8:30 am to 4:00 pm each day, except last day from 8:00 am to 5:00 pm
- 1 hour lunch break
- morning and afternoon break (15 minutes each)

Course Topics and Learning Outcomes

Upon successful completion of the course, the participants will be able to:

AWWA Canadian Tester Certification policies

- Understand the current policies and how they apply

AWWA Canadian / CCC Manual Review

- Identify and review key components of the manual

Causes of Backflow

- Understand hydraulic conditions that cause backflow

Health Aspects

- Know the health aspects related to cross connections

Legal Aspects & Case Studies

- Understand the legal aspects related to cross connections

Hazard Types & Classification

- Determine and assess cross connection hazards

Types & Methods of Backflow Control

- Know the types & applications of backflow preventers

Backflow Preventer Principles & Operation

- Understand the operation and function of backflow preventers

Proper Installation Requirements

- Learn the proper installation criteria of backflow preventers

Testing Procedures for Backflow Preventers

- Apply hands-on testing procedures for the DCVA, RP, & PVB / SRVP

Material/Handouts (supplied)

- Handouts: MTS Maintenance Training Systems Inc. Vernon BC
- Reference Manual: Western Canada Water Section - American Water Works Association (WCS AWWA). AWWA Canadian Cross Connection Control. Cochrane AB.
- EOCP Course Completion and Evaluation Form.
 - every student needs to complete and return this form for any CEU allocation
- Calculators are provided but students are welcome to use their own.
 - please return

Course Requirements

Attendance and participation in class are required. It is the student's responsibility to attend all classes.

CEUs will be allocated based on attendance and course completion; Yukon University records will show a pass or fail result. If the participant doesn't attend the class, Yukon University records will show a "no show" result and no CEUs will be allocated.

Evaluation

There will be a quantifiable evaluation at the end of this course. Please note that this evaluation is for self-assessment purpose only.

The final evaluation for this course is NOT the BCWWA certification exam. To challenge the certification exam, register separately with BCWWA at least 3 weeks in advance: 1-877-433-4389 or www.bcwwa.org.

BCWWA certification exam includes 100 multiple choice questions (75% passing mark) and a practical demonstration of ability to test valves as listed above. Successful completion of this certification exam provides a BCWWA Backflow Assembly Tester Certificate.

Appropriate Language

In all areas of the University environment, students are responsible for showing respect for others. Swearing, or language that is discriminatory or derogatory in relation to race, sex, ethnic background, religious beliefs, age, and physical condition is not appropriate.

Electronic Devices

In order to be successful in classes and minimize distractions for others, cell phones, iPods, and other electronic devices must be turned off while students are in class. In an emergency situation, the instructor may give a student permission to use a cell phone or pager.

Academic and Student Conduct

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/Admissions & Registrations web page.

Plagiarism

Plagiarism is a serious academic offence. Plagiarism occurs when students present the words of someone else as their own. Plagiarism can be the deliberate use of a whole piece of another person's writing, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material. Whenever the words, research or ideas of others are directly quoted or paraphrased, they must be documented according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Resubmitting a paper which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the University.

Academic Accommodation

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon University Academic Regulations (available on the Yukon University website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, they should contact the Learning Assistance Centre (LAC) at LearningAssistanceCentre@yukonu.ca.

Class Outline

Topic	Time Allocation (hr)
Introductions and Agenda review	0.50
AWWA Canadian Tester Certification policies	0.25
AWWA Canadian / CCC Manual Review	0.25
Causes of Backflow	3.00
Health Aspects	2.00
Legal Aspects & Case Studies	1.50
Hazard Types & Classification	2.00
Types & Methods of Backflow Control	3.50
Backflow Preventer Principals & Operation	4.00
Proper Installation Requirements	4.00
Testing Procedures for Backflow Preventers	8.00
Practice Exam & Review	3.00