

Cross Connection Control Awareness

Course Outline

Course Description

This 1-day course is intended as an overview for participants interested in cross connection control. The information in this course is not intended to be used as a sole source of information for a Cross Connection Control Program.

The main objective of the course is to provide knowledge and awareness to operators regarding cross connections, legalities, hazard classifications, and methods of preventing backflow conditions pertaining to the protection of drinking water supplies.

Course Pre-requisites

There are no specific pre-requisites for this course.

Continuing Education Units (CEUs)

This course is recognized by EOCP for 0.6 CEUs (core for SWS, BWD, WT, WD, WWT, WWC and SWWS certifications).

Course Duration

- 1 day
- 8:30 am to 4:00 pm
- 1 hour lunch break
- morning and afternoon break (15 minutes each)

Course Topics and Learning Outcomes

By the end of the course, the students will:

- Understand what is a cross connection.
- Recognize cross connections and understand conditions which may allow contaminants or pollutants to enter a potable water system.
- Understand the importance of cross connection control to help protect owners, technicians, system operators, along with communities from litigation resulting from illegal or unsafe acts.
- Understand public health concerns related to disease, chemical, and physical hazards with respect to potential cross connections with drinking water.
- Be able to reference national and territorial plumbing codes.
- Understand the possible causes of backflow (backsiphonage and backpressure).
- Understand the three hazard classifications of cross connection and be able to identify, assess, and classify the hazard.

- Understand how to control cross connection contamination by methods of backflow prevention.
- Be aware of the methods used to prevent backflow pertaining to their hazard classification.
- Understand the types of backflow prevention devices and their unique features.
- General understanding of a cross connection control program for the purpose of ensuring safe drinking water quality and protecting the health of staff the public.
- Be aware of education, training, and recordkeeping requirements involved with a cross connection control program.
- Understand the cross connections associated with water distribution systems unique to the northern region climate such as water recirculation, re-heating, blow-offs, and continual draining to sewer.

Delivery Method/Format

| Instructional Method | Percentage of Class Time |
|-----------------------------|---------------------------------|
| Hands-on/Q & A | 10% |
| Examples/Case Study | 10% |
| Presentation/Lecture | |
| Slides | 60% |
| Demonstration | 10% |
| Video/DVD | 5% |
| Tutoring | 5% |

Material/Handouts (supplied)

- Student Binder: Yukon University. Cross Connection Control Awareness; an elective –technical development– course. Whitehorse, Yukon.
- EOCP Course Completion and Evaluation Form.
 - every student needs to complete and return this form for any CEU allocation

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 with a passing mark of 70%. Please note that this evaluation is for self-assessment purpose only.

The final evaluation for this course is NOT an EOCP certification exam. To challenge a certification exam, register separately with EOCP at least 3 weeks in advance: 1-866-552-3627 or crm.eocp.ca.

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 | Duration (hours) |
|--|-------------------------|
| Introduction to Cross Connection Control | 0.75 |
| Legal and Health Considerations | 0.75 |
| The Plumbing Code and Cross Connection Control | 0.25 |
| Hazard Classification | 1.25 |
| Methods of Backflow Control | 1.00 |
| Starting a Cross Connection Control Program | 0.75 |
| Northern Weather Considerations | 0.50 |
| Review and Questions | 0.75 |