

School of Construction and the Environment

ASSOCIATE CERTIFICATE IN FUNDAMENTALS OF WATER AND WASTEWATER OPERATIONS



The Associate Certificate in Fundamentals of Water and Wastewater Operations is uniquely designed to provide the essential knowledge and skills for entry level positions as Water and Wastewater Treatment Operators. The competencies gained in this program will serve as a foundation for passing the theoretical component for the EOCPL Level I certification examinations for all four facility/system types. These include Water Distribution, Water Treatment, Wastewater Collection, and Wastewater Treatment.

The program will be offered as a series of part-time courses. Courses will be delivered using a cohort model in a hybrid format primarily in an online format, with some virtual components and field trips to water and wastewater facilities. The mix of theoretical and real world learning opportunities will enable students to apply their learning in meaningful and concrete ways.

The program is designed to be completed by a cohort of up to 24 students over a 12-month period.

At this point in time, the courses are not available on a one-off basis. They are delivered sequentially, as part of the Associate Certificate. One-off offerings of the courses may be able to be organized through a single company offering.

The program scheduling has been created to allow individuals to remain working while taking the Associate Certificate.

The Associate Certificate in Fundamentals of Water and Wastewater Operations is:

- Comprised of five, 3.0 credit, online courses, for a total of 15 credit, with each course delivered over a 9-week time frame.
- Prefaced by a 'Program Orientation and Field Coursework' session delivered using a virtual platform.

The five courses include:

1. WATR 1001 – Water Treatment: Explores the individual components and subsystems that support water treatment systems in BC.
2. WATR 1002 – Wastewater Treatment: Introduces the basics of various technologies and wastewater treatment systems used in BC.
3. WATR 1003 – Water Distribution and Mechanical Systems: Explores the basics of installation, operation and maintenance of water distribution and mechanical systems.
4. WATR 1004 – Wastewater Collection and Mechanical Systems: Describes the basics of installation, operation and maintenance of wastewater collection and mechanical systems.
5. WATR 1005 – Legislation, Safety and Communications: Introduces how to communicate effectively with other professionals, and organize work activities as well as safety procedures and regulations applicable to water/wastewater treatment and distribution systems.

ENTRANCE REQUIREMENTS

Applicants to the program (cohort) will be individuals interested in employment in the field, as well as those already employed in the field.

It is recommended that applicants to the program possess the following skills and experience prior to entry:

- Secondary School Graduation.
- Science: Grade 12 level.
- Math: Grade 11 level.
- Work experience: This program is specifically designed for individuals either seeking employment in the Water or Wastewater sector or currently employed in the Water and Wastewater industry and seeking advancement.

Note: Those not meeting these entry recommendations can consult with program administration to discuss their particular situation.

Upcoming intakes:

January 2021 – December 2021 (pilot)	Sept 2021 – Aug 2022 (TBC)
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The Associate Certificate in the Fundamentals of Water and Wastewater Operations was created through a partnership between the Environmental Operators Certification Program, Metro Vancouver, Municipalities, and BCIT.

This program was developed by Industry for Industry.

FOR MORE INFORMATION

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Subject to change without notice

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