## 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 EOCP 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 work experience placement 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' session delivered using a virtual platform.





The five courses include:

- 1. WATR 1010 Water Treatment: Explores the individual components and subsystems that support water treatment systems in BC.
- 2. WATR 1020 Wastewater Treatment: Introduces the basics of various technologies and wastewater treatment systems used in BC.
- 3. WATR 1030 Water Distribution and Mechanical Systems: Explores the basics of installation, operation and maintenance of water distribution and mechanical systems.
- 4. WATR 1040 Wastewater Collection and Mechanical Systems: Describes the basics of installation, operation and maintenance of wastewater collection and mechanical systems.
- WATR 1050 Communications, Legislation and Safety: 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:

- English: Grade 12 level or equivalent.
- Chemistry: Grade 11 level or higher with a 67% mark or higher.
- Math: Grade 11 level or higher with a 67% mark or higher.

An EOCP requirement for certification is graduation from secondary school (or equivalent).

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

Upcoming intake:

September 2021 – September 2022

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 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.

This program was developed by Industry for Industry.

## FOR MORE INFORMATION

Andrea Dusanj | 604.432.8885 | Andrea\_Dusanj@bcit.ca | bcit.ca/construction/industry

## BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

3700 Willingdon Avenue, Burnaby, British Columbia V5G 3H2 Subject to change without notice