

# Course Outline

**Course Title:** Shellfish Water Quality Training

**Course Code:** AQUA 559T

**Total Hours:** 14 hours

**Description:** This course prepares students to collect water samples in shellfish growing areas for fecal coliform bacteria analysis. Topics also include: procedures for sampling for biotoxins and shellfish-borne pathogens, and regulations and procedures of the Canadian Shellfish Sanitation Program. Certification by Environment Canada can be arranged in conjunction with this course.

**Course Objectives:**

The student will develop knowledge and skills in:

- The Canadian Shellfish Sanitation Program;
- The shellfish growing water classification system;
- Fecal coliform bacteria;
- The role of water sampling in determining area classification;
- Shellfish biotoxins;
- Disease transmission through shellfish;
- The use of water sampling equipment;
- Carrying out water sampling protocols;
- Obtaining salinity and temperature measurements; and
- Recording of measurements and field observations.

**Course Modules:**

Module 1: Fecal Coliform Contamination

Module 2: Marine Biotoxins

Module 3: Bacterial, Viral and Parasitic Diseases

**Prerequisites:** None.

**Evaluation:** Students will be evaluated through a combination of attendance, completion of classroom, field exercises, demonstration of sampling techniques and written examination.