

Water Quality Technician Training



Indigenous Training and Skills Development



First Aid



Safety

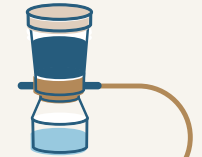
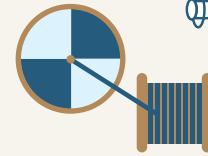
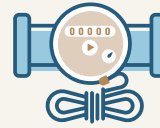
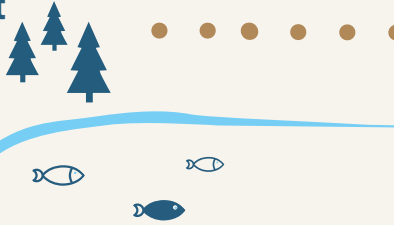
Workplace Safety



Site Assessment

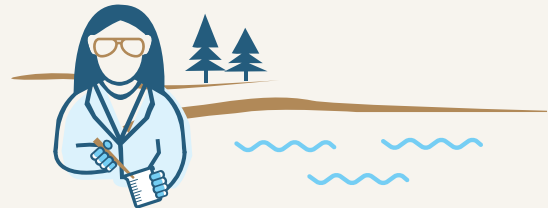
Skills and Abilities

Equipment Set-up and Operation



Monitoring, Sampling and Data Collection

Data Analysis and Interpretation



Resource Management

Expertise

Environmental Assessment and Restoration



Careers



Laboratory Technician



Habitat Restoration Technician



Environmental Monitor



Hydrologist

Water Quality Technician Training Courses*

- **First Aid:** Standard (Level 1), Cardiopulmonary Resuscitation (Level C), Wilderness First Aid, Advanced, Advanced Wilderness and Remote
- **Workplace Safety:** Swiftwater Rescue, Field Safety, Bear Awareness, Boating Safety, All-terrain Vehicle Safety, Ice Safety and Awareness, Snowmobile Safety, Occupational Health and Safety, Workplace Hazardous Materials Information System, Transportation of Dangerous Goods, Laboratory Safety Protocol, Job Safety Analysis

Some course topics are part of Canadian Aquatic Biomonitoring Network (CABIN) training modules. Water quality training to work in aquaculture and/or hatcheries may differ.

- **Rules and Regulations:** Riparian Areas Protection Regulations, Fisheries Act
Site Assessment and Preparation: Site Safety Assessment, Study Design and Statistics of Model Building, Field Quality Assurance
- **Equipment Set Up and Operation:** Sampling Plan Development, Instrument Calibration and Maintenance, Global Position System Devices, Quality Assurance/Quality Control Protocols
- **Monitoring, Sampling and Data Collection:** Water Quality Monitoring and Design, Introduction to CABIN and biomonitoring, Field Sampling using CABIN protocols, CABIN Field Certification Practicum, Sediment Monitoring, Taking Field Notes and Chain of Custody Documentation, Shellfish Water Quality, Data Entry
- **Data Analysis and Interpretation:** CABIN Test Site Assessment: Data Analysis, Interpretation and Reporting, Standard Analytical Methods, Analytical Techniques, Water Resource Management, Technical Report Writing for Science and Technology, Mathematics for Water Quality Technicians, Proficiency Testing Program (Laboratory Testing), Laboratory and Data Storage Quality Assurance
- **Resource Management:** Chemistry for Technicians, Physical Principles of Hydrology, Water Microbiology, Principles of Hydrological Modelling, Technical Writing for Professionals,
- **Environmental Assessment and Restoration:** Restoration of Freshwater Aquatic Systems, Experimental Design in Ecology

**There may be annual, refresher and/or recertification needs.*



- Environmental Field Skills Certificate
- Environmental Technician Certificate Program
- Restoration of Natural Systems Certificate
- (Essential) Fisheries Field Skills Certificate Program
- ECO Canada Certification of Environmental Professionals
- Environmental Operators Certificate Program

Advanced Education

College and Technical Institutes

- Water Engineering Technology Diploma – Environmental Monitoring (two-year program)
- Environmental Resources Diploma (two-year program)
- Fish, Wildlife and Recreation Diploma
- Fisheries and Aquaculture Technology Diploma Program

Universities

- Ecological Restoration, Bachelor of Science
- Ecological Restoration, Master of Science
- Advanced Diploma – Water Quality (post-graduate)

