

PIPELINE AND FACILITIES CONSTRUCTION ENVIRONMENTAL INSPECTOR POSITION PROFILE

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The Province of Alberta is working in partnership with the Government of Canada to provide employment support programs and services.

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1 OVERVIEW

Pipeline and facilities construction environmental inspectors are specialized pipeline construction inspectors. They ensure that construction activities, including pre-construction and post-construction activities, are always conducted in compliance with environmental permits, requirements, plans, and procedures through careful monitoring, communicating, and reporting. New pipeline and facilities construction environmental inspectors can expect, on average, a total annual compensation of \$90,000 (2019 estimate) with potential to earn over \$350,000 per year.

Pipeline construction environmental inspector roles are typically found in the following industries:

- Construction
- Government and public services
- Professional, scientific, and technical services
- Oil and gas
- Energy utilities

Specifically, within these industries, pipeline construction environmental inspectors will be employed by the following types of organizations:

- Construction companies
- Federal government
- Provincial government
- Municipal government
- Environmental and civil engineering consultancies
- Oil and Gas companies with extensive pipeline operations
- Pipeline operating companies
- Landowner associations

2 RESPONSIBILITIES, SKILLS & TRAITS

Pipeline and facilities construction environmental inspectors are generally responsible for:

- Adhering to and enforcing the owner company's Environmental Protection Plan (EPP) or equivalent
- Ensuring all construction personnel are aware of relevant environmental regulations, policies, and approvals
- Monitoring construction activities to ensure they are completed in compliance with environmental permits and requirements
- Adhering to owner-company quality documentation
- Ensuring owner company's safety policies and procedures are followed
- Observing and reporting individuals for non-compliance and/or site violations
- Participating in and contributing to safety meetings
- Understanding, adhering to, and enforcing contractual obligations
- Confirming qualifications, certifications, and training of individuals allowed on the construction site (e.g., Biologist)
- Ensuring specialized environmental equipment is properly calibrated
- Maintaining lines of communication with key stakeholders
- Liaising with regulatory personnel regarding environmental issues
- Completing relevant reports (e.g., rare plant report)
- Assisting with completing formal Incident Reports, if necessary

Individuals in the pipeline construction environmental inspector role should have the following skills and traits:

- Leadership skills
- Interpersonal skills
- Conflict management skills
- Verbal and written communication skills
- Basic computer skills
- Critical thinking
- Attention to detail

3 EDUCATION

Pipeline and facilities construction environmental inspectors typically require a post-secondary degree preferably in a related field, such as biology, environmental studies, engineering, or other science technologies. In addition to a post-secondary degree, experience in trades (e.g., Environmental Technician) and/or industrial settings, or related training is also beneficial. Additionally, many positions require previous pipeline construction field experience; however, many employers may accept equivalent combinations of experience, education, and certification.

4 CERTIFICATION & DESIGNATION

Some employers may require certification; employers that do not will still likely view certification as an asset. Relevant certifications include, but are not limited to:

- American Petroleum Institute (API) 1169 Pipeline Construction Inspector certification
- American Petroleum Institute (API) 1184 Pipeline Facility Construction Inspector certification
- Certified Professional in Erosion and Sediment Control (CPESC)
- ECO Canada Environmental Professional designation

Additionally, some employers may require additional safety certifications. Relevant certifications include, but are not limited to:

- Ground Disturbance Level II, Pipeline Construction Safety Training
- WHMIS
- First Aid
- CPR

5 ADDITIONAL INFORMATION

American Petroleum Institute (API): www.api.org

Canadian Energy Pipeline Association (CEPA) Foundation: <https://cepafoundation.com/>

Environmental Careers Organization of Canada: <https://eco.ca/>