

**8:30 am**

- Meet and greet, coffee, and introductions

**9:00 AM: Course Begins**

- Course Overview
- Principles of Environmental Site Assessment
  - Purpose of an ESA
  - Levels of Assessment
  - CSA Standard & Upstream Oil & Gas
- Qualified Assessor
- The Phased approach- Leading to Reclamation Certificate
- Contaminant Sources and Contaminants of Concern
  - Source-Pathway-Receptor Model
  - Conceptual Site Model
  - Potential Contamination Sources
  - Pathways for Migration
  - Contaminants of Concern
  - Chemical fate and transport

**10:30 AM: Networking Break (15 Min)**

- Upstream Phase 1 ESA Standards
  - Governing Bodies
  - Legislation
  - Phase 1 ESA form
- Phase 1 ESA Components
- Records Review
  - Drilling & Waste Disposal Information
  - Production, Storage, and Environmental Information
  - ESAR, Air Photos, Maps, Site Plans

**12:30 PM: Networking Lunch (45 min)**

- The Site Visit
  - General Site Information
  - Possible Sources of Contamination
  - Proximity to Neighbouring receptors
- Site Photos, Site Sketch
- Interviews
  - Who? What? Why? How?
- Drilling Waste Compliance Options
  - Documentation
  - 3 Compliance options, Checklists, and Calculations

**2:30 PM: Networking Break (15 min)**

- Report Structure & Interpretation
  - Phase 1 ESA Report Structure
  - Report Review and Interpretation
- Professional Sign-off
  - Professional Designations
  - What is Professional Sign-Off? When is it required?
  - Professional Declaration Form
- Site Remediation and Reclamation
  - Overview of steps after Phase 1 ESA
  - Phase 2 ESA Overview
  - Remediation Overview
  - Site Reclamation and Reclamation Certificate Overview
- Final Quiz (Approx. 45 min)

**5:00 PM: End of Phase I Upstream Oil & Gas Training Course**