



# AESAC Phase 1 ESA Training Course - Course Outline

## Day 1: 8:30 am

- Meet and greet, coffee, and introductions

### 9:00 AM: Course Begins

- Introduction of AESAC
- Course Overview
- Principles of Environmental Site Assessment
  - Purpose of an ESA
  - Levels of Assessment
  - The Phased Approach
- The CSA Standard Z768-01
- Environmental Law - "The Basics"

### 10:30 AM: Coffee Break

- Records Review & Information Gathering
  - Mandatory and optional information
  - Examples of where to find information
  - How to interpret information
- Pictures, Maps and Air Photographs
  - Topographic Maps, Fire Insurance Plans
  - National Air Photography Library and other resources

### 12:30 PM: Lunch Break

- The Interview
  - Why, Who, What, and How
- Risk Management
  - Health and safety for Consultants
  - Site Specific Health & Safety Plan
  - Hazardous Materials Information

### 2:30 PM: Coffee Break

- Contaminant Migration
  - Source – Pathway – Receptor
  - Contaminant Behavior
  - Groundwater – Elevation & Flow Direction
- Closure/Review and Daily Question and Answer
- Take-home Assignment

### 5:00 PM: End of Day 1

## Day 2: 9:00 AM Day 2 Begins

- Q and A about CSA Standard Z768-01
- Review Take Home Assignment
- The Site Inspection
  - General Site Information
  - Screening/Site Inspection Report
  - Understanding of Site Operations
    - Industrial, commercial, agricultural, vacant
    - Oil & Gas, Mines, Heritage sites
  - Adjacent Properties

### 10:30 AM: Coffee Break

- Hazardous Materials on site
- AST's and UST's
- Special attention items
  - Asbestos, Lead, UFFI, PCB's, ODS.
- Evidence of Investigation & Remediation

### 12:30 PM: Lunch Break

- **Guest Speaker** (May be Subject to change)
- Case Studies; Site Inspection
  - Alberta, BC, or Ontario Specific Case Studies
- Real Site Inspection (Mock inspection of Course location property).
  - Investigate interior and exterior of Building and property

### 2:30 PM: Coffee Break

- Report Structure & Interpretation
  - Components of a Phase I ESA
  - Scope of Work
  - Enhancements to a Phase I ESA
  - Limitations to a Phase I ESA
  - Records Review, Site Visit, Interviews
  - Reporting & Interpretations of Phase I ESAs

### 5:00 PM: End of Day 2

## Day 3: 9:00 AM Day Begins

- Ontario MECP Regulations- (Ontario Course Only)
  - O. Reg. 153/05 & 511/09
  - Record of Site Condition (RSC)
  - Changes to Site Condition Standards (SCS)
  - Staged Implementation of O.R. 511/09
- Western Canada Special Regulation (Alberta Course Only)
  - Upstream Oil and Gas Regulation overview
  - Provincial differences to Phase I ESA's

### 10:15 AM: Coffee Break

- Group Exercise; Bringing it all together
  - Completing a Phase I ESA
  - Gathering information
  - Recap and review of "Real Site Inspection"
  - Reporting a Phase I ESA
- Environmental Issues- Photo Review/Group Discussion

### 12:00 PM: Lunch Break

- Review for Exam / Q and A
- Individual or Group Study
- **Phase I ESA Certification Exam**

### 5:00 PM: End of Phase I Training Course