



AESAC Phase 2 ESA Training Course - Course Outline

Day 1: 8:30 am

- Meet and greet, coffee, and introductions

9:00 AM: Course Begins

- Introduction of AESAC
- Background/Origin of CSA Standard
- Summary of Applicable CSA Standards
- Other Standards and Guidelines for Conducting ESA
- Environmental Law - "The Basics"
 - Overview of Canadian Environmental Law
 - Relevant Environmental Legislation for Conducting ESA's
 - Regulatory Responsibilities
 - Case Studies/Examples for Group Discussion

10:30 AM: Coffee Break

- Review of CSA Z768-01 Standard for Phase I ESA
- CSA - Z769-00 Introduction of CSA Standard for Phase II ESA
 - Uses of the Phase II ESA
 - Scope of Work
 - Levels of Assessment
- Liabilities and Responsibilities of Assessor and Client
- Health and Safety for the Assessor
- Overview of HAZWOPER training

12:30 PM: Lunch Break

- Initiating the Phase II ESA
- Reviewing Existing Data
- Data Gap Analysis - Case Studies for Group Discussion

2:30 PM: Coffee Break

- Phase II ESA - Planning and Development
- Health and Safety Planning
 - Creating a Site Specific HASP - Case Studies for Group Discussion
- Identifying Contaminants of Concern and Areas to be Investigated
- Media to be Investigated: Soil/Water/Sediment/Soil Vapour/Air/Other
- Accessibility/Timing
- Overview of Sampling Methodologies: Soil, Surface Water and Groundwater Investigations
- Closure/Review and Daily Question and Answer
- Take-home Assignments: Data Gap Analysis Exercise; Study CSA Guideline Z-769-00

5:00 PM: End of Day 1

Day 2: 9:00 AM Day 2 Begins

- Q and A about CSA Standard Z769-00
- Review Take Home Assignment - Data Gap Analysis
- Formulating the Sampling Plan

10:30 AM: Coffee Break

- Group Exercise: *Prepare a Sampling Plan*
- Conducting the Site Investigation
- Project Set-up, Drilling Techniques, Collecting Field Data

12:30 PM: Lunch Break

- **Guest Speaker** (*Subject to change*)
- Group Exercise: Examine, Describe and Log soil samples
- Evaluating Information
- Interpreting Data
- Group Exercise for Data Evaluation and Interpretation

2:30 PM: Coffee Break

- Phase II ESA - Reporting
- Executive Summary
- Report Format(s)
- Changes to the Scope of Work
- Report Limitations
- Findings, Conclusions, Appendices, References
- Take-home Assignment: Work Plan for a Phase II; Study for Exam

5:00 PM: End of Day 2

Day 3: 9:00 AM Day Begins

- Review Take Home Assignment – Phase II ESA Work Plan
- 'Case Studies' in the news (suggested topics, subject to relevance and updates)
 - Remedial Technologies
 - Brownfield Remediation
 - Disaster Response

10:15 AM: Coffee Break

- MECP Guidelines (Ontario Course only)
 - Overview of Guidelines O.R. 153/511
 - Hands on demonstration
- Western Specific Regulations (Alberta Course only)
 - Upstream Oil and Gas Regulations
 - British Columbia, Alberta, Saskatchewan Specific Regs
 - 'Creating a Sampling Plan' group assignment
- Q and A about CSA Standard, AESAC, etc.

12:00 PM: Lunch Break

- Review for Exam
- Individual or Group Study
- **Phase II ESA Certification Exam**
- Receive Course Completion Certificates

5:00 PM: End of Phase II Training Course