# Pre-/Post-test Module 2: Evaluating Environmental and Health Risks

## Student Copy

**Pre/Post-test**

***NOTE: post-test contains Self-assessment questionnaire***

**Self-assessment: Answer this only during the post-test**

In reference to the Evaluating Environmental and Health Risks module, please choose all that apply:

1. Specifically useful for my work. If so, you can describe how here (optional): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Quick refresher
2. Offers me knowledge about a topic I am less familiar with
3. Gives me confidence to increase my skills in and understanding of evaluating environmental and health risks associated with land reuse sites
4. Motivates me to learn more about land reuse sites and ways I can be engaged
5. Not needed for my work
6. None of the above
7. Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Minimum Passing Score: ­70% (7 out of 10) ­**

**Allow multiple retakes? (Y/N) Yes**

1. **Toxicity of a chemical contaminant depends on (select the best answer)**:
   1. Dose (the amount of substance that enters the body) and proximity to exposure
   2. Dose (the amount of substance that enters the body), route of exposure, and duration of exposure (frequency)
   3. Dose (the amount of substance that enters the body) and structure of the substance (three-dimensional shape of a molecule), proximity
   4. Dose (the amount of substance that enters the body), route of exposure, duration of exposure (frequency), individual factors (health status, sex, genetics, etc.), shape and structure of the substance (three-dimensional shape of a molecule)
2. **In land reuse site assessment and cleanup, people from multiple disciplines can be involved, such as environmental professionals, health professionals, planners, toxicologists, and epidemiologists.**
   1. True
   2. False
3. **A Phase I Environmental Site Assessment (ESA) is also called: (Select all that apply)**
   1. Due diligence
   2. Initial client consult
   3. All Appropriate Inquiry
   4. Initial environmental sampling effort
4. **Which of the following are aspects that are part of a Phase I ESA? (Select all that apply)**
5. Geology and hydrogeology review
6. Review of aerial photographs and Sanborn maps
7. Soil and water samples
8. Development of site sampling plan
9. Interviews with neighbors and past site owners
10. **Which activities are included in a Phase II Environmental Site Assessment (ESA)? (Select all that apply)**
    1. Summaries of interviews with site owner that document past environmental practices, such as manifest records of hazardous waste transfer, documentation of community concerns, and regulatory reports or enforcement records
    2. Comprehensive site sampling plans, monitoring well installation tests, drum samples
    3. A site map that shows evidence of oily stains, drums left on site, and other potential “hot spots”
    4. Conceptual site model to hypothesize how target analytes would have been released and migrated to the soil or groundwater
11. **A tiered approach to cleanup ensures that the assessment and cleanup of a land reuse site is conducted by environmental or health professionals drawing on their expertise to select the best redevelopment protocols:**
    1. True
    2. False
12. **A Public Health Assessment is required at all types of land reuse sites.**
    1. True
    2. False
13. **Risk Assessment includes these steps (select the best answer):**
    1. Site Assessment, Hazard Identification, Exposure Route Identification, Cleanup Plan
    2. Hazard Identification, Cleanup Plan, Risk Characterization, Human Health Threats
    3. Hazard Identification, Dose-Response Assessment, Exposure Assessment, Risk Characterization
    4. Site Assessment, Hazard Identification, Risk Characterization, Cleanup Plan
14. **Public Health Assessment incorporates aspects of Risk Assessment and in addition, includes (select the best answer):**
    1. Collection of site samples nearest to sensitive receptors/populations, exposure assessment, toxicologic assessment, risk management recommendations
    2. Exposure assessment, toxicologic assessment, review of health outcome data, recommendations for public health protection
    3. Environmental site assessment, exposure assessment, toxicologic assessment, risk management recommendations
    4. Environmental site assessment, exposure assessment, site sampling plan, toxicologic assessment
15. **There are several tools and resources available for use in Environmental Site Assessments and Public Health Assessments. (Select all that apply)**
    1. Health Impact Assessment
    2. Enviro Detective Site Investigation Tool
    3. ATSDR’s Toxicological Profiles
    4. Community Mapping Tools
    5. Enviro Library Search Tool
    6. Risk-o-Mapper Software
    7. Community Health Status Indicator