

**CERTIFIED ENVIRONMENTAL TRAINER**  
**Occupational Safety and Health Test**  
**Need-to-Know Criteria**

A Certified Environmental Trainer must be able to demonstrate that they possess the following knowledge and skills:

**I. Safety Leadership, Accident Prevention and Risk Management (30%)**

- A. Define and explain terminology. (Examples could include but not be limited to chemical classification and characterization, physical hazards, anchor point, hazardous atmosphere, GFCI, and hypothermia.)
- B. Identify, assess and control hazards. (This category is primarily focuses on non-regulatory aspects of dealing with hazards. Examples could include but not be limited to dust explosions, heat/cold stress, stress management factors, housekeeping practices, guarding, trenching and excavation, combustible gases and vapors, confined spaces, flammable liquids and vapors, electrical hazards, lockout/tag out, slip/trip/fall, fall protection, mobile equipment hazards, power/hand tools, manual handling, hazardous chemicals, general industry and construction, and multi-employer work.)
- C. Identify and explain process safety management concepts and activities including risk assessment, safety program, employee training, emergency preparedness, and contractor information and liability.
- D. Identify safe work practices, explain their use, evaluate their impact on safety and health issues, and assess training needs for their use.
- E. Identify and evaluate risk management/loss prevention and control practices.
- F. Identify and explain elements of a hazard communication program (Example: material safety data sheets, labeling, inventory, NFPA 704, military, health care, written program, training, and evaluation of hazards.) Include clear emphasis on all labeling systems; i.e. bloodborne pathogens, etc.
- G. Safety leadership with consideration of roles and responsibilities, historical perspective, and organizational behavior.

**II. Industrial Hygiene (25%)**

- A. Identify engineering and administrative controls used for the recognition, evaluation, and control of hazards. Explain the use of these techniques. Evaluate the performance of engineering and administrative controls.
- B. Define and explain terminology. (Examples could include but no be limited to exposure limits, carcinogens, mutagens, LD50, LC50, acute and chronic, symptoms, ergonomics, indoor air quality, engineering controls, local exhaust, and effects.)
- C. Identify types, capabilities, and limitations of workplace monitoring equipment. Evaluate the need for workplace monitoring and explain techniques for conducting monitoring.
- D. Describe and explain basic principles of toxicology. Identify routes of exposure and explain how contaminants may enter the human system.

- E. Identify the purpose and explain the requirements of a medical surveillance program.

**III. Personal Protective Equipment (15%)**

- A. Identify regulatory requirements pertaining to personal protective equipment.
- B. Identify the principals of hazard and risk assessment as it applies to occupational safety and health. (This includes hazards/risks to eye, hand, foot, respiratory system, hearing, head, and full body.) Evaluate the performance of administrative and engineering controls.
- C. Assess and apply protective measures available to prevent or control each type of exposure.
- D. Identify various types of protective clothing and equipment, and respiratory protection. Explain the limitations and appropriate use for each, and assess possible hazards to trainees and users.
- E. Describe the relationship between environmental thermal stressors and the selection and use of appropriate personal protective clothing and equipment.
- F. Describe the selection and evaluation of appropriate personal protective equipment.
- G. Describe principles and explain methods of decontamination.

**IV. Emergency Response (10%)**

- A. Identify regulatory requirements pertaining to emergency response.
- B. Describe and explain components of incident management.
- C. Identify all-hazards emergency response planning needs and site-specific emergency response plan components.

**V. Regulatory Standards (10%)**

- A. Identify key federal regulatory agencies, their role in occupations safety and health, and their scope of authority. Examples include but are limited to OSHA, MSHA, NIOSH, EPA, DOT, and NRC.
- B. Identify industry and consensus standards-making organizations and standards of these groups that are adopted by reference. (Examples include but are not limited to NFPA, ANSI, ACGIH, and ASTM.)

**VI. Fire Prevention/Protection (10%)**

- A. Identify regulatory requirements related to fire protection.
- B. Identify and explain classes of fire and how these classes are applied to fire extinguishers.
- C. Explain basic principles of fire behavior and chemistry.
- D. Describe selection, operation inspection and maintenance of fire extinguishers.
- E. Identify and explain uses and hazards of fixed extinguishing systems.

- F. Identify factors and conditions influencing evacuation.
- G. Recognize and assess factors/conditions which influence life safety.
- H. Identify training elements needed for fire prevention and protection.