



# EXAMINATION PREPARATION

IASHEP – CSHET - Construction

Certified Safety Health Environmental Technician -Construction

## Domain 1

Management Systems & Controls - 10.0 %

### Knowledge of:

1. Knowledge of global environmental and safety management systems to Include ISO14001 ISO 18001
2. Knowledge of industrial work processes, material handling techniques, and proper management of hazardous materials
3. Knowledge of health and safety controls and the surveillance of related safety measures and requirements.
4. Knowledge of management leadership programs
5. General knowledge of Laboratory and federal, state, and local laws, regulations, policies, and procedures pertaining to industrial hygiene/safety.
6. Knowledge of NSF, ANSI, AIHA and ASHRAE guides and standards.
7. Ability to research information sources for health effects data applicable to work operations (i.e., safety data sheets, regulations, standards, other agencies, and experts).
8. Knowledge of ergonomic principles and control measures.
9. Working knowledge of and/or possess the aptitude to learn National Fire Protection Association (NFPA) standards

### Skill to:

1. Given a scenario, identify the key elements of a proactive safety, health & environmental program.
2. Given a scenario, identify accident causal factors
3. Given a scenario, identify actions to improve safety performances
4. Given a scenario, identify behaviors that impact worker safety
5. Given a scenario, identify supervisory actions that support safety, health and environmental policies and programs.



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## Domain 2

Hazard Control, Abilities & Competencies - 30 %

### Knowledge of:

#### 1. Hazard Identification and Control (30%)

- **Common Electrical Hazards and Controls (5%)**
  - Knowledge: Common electrical hazards, control measures, applicable safety standards.
  - Skills: Recognizing electrical hazards, implementing lockout/tagout procedures
- **Excavation Hazards and Controls (5%)**
  - Knowledge: Trenching, excavation hazards, protective systems.
  - Skills: Conducting site-specific hazard assessments for excavations.
- **Working at Heights Hazards and Controls (5%)**
  - Knowledge: Ladder, scaffolding, aerial platform risks, and safety measures.
  - Skills: Evaluating and enforcing height safety protocols, using fall protection equipment.
- **Confined Space Hazards and Controls (2.5%)**
  - Knowledge: Identification of confined spaces, monitoring requirements.
  - Skills: Implementing confined space entry protocols, monitoring atmospheric hazards.
- **Struck-by and Caught-in/Between Hazards (2.5%)**
  - Knowledge: Equipment movement, trenching, machinery hazards.
  - Skills: Identifying hazardous areas, ensuring use of machine guards and traffic controls.
- **General Construction Hazards and Controls (10%)**
  - Common hazards and controls: hoisting and rigging, crane operations, material handling, storage, housekeeping, and various exposures (asbestos, lead, noise,



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vibration, chemical).

- Skills: Recognizing multi-trade risks, using PPE, ergonomic applications

## 2. Site Safety Management (25%)

### • Applicable Health and Safety Standards and Best Practices (5%)

- Knowledge: Health and safety regulations and construction/environmental best practices.
- Skills: Applying standards to site conditions, maintaining compliance documentation.

### • Site-Specific Safety Plans and Risk Management (5%)

- Knowledge: Components of safety plans, risk management in construction.
- Skills: Developing and reviewing site-specific safety plans, conducting audits.

### • Incident Investigation and Root Cause Analysis (5%)

- Knowledge: Data gathering techniques, root cause analysis, post-incident procedures.
- Skills: Conducting effective incident investigations, documenting findings.

### • Documentation and Reporting (5%)

- Knowledge: Recordkeeping standards, documentation of occupational injuries/illnesses.
- Skills: Maintaining inspection logs, documentation, and reporting systems.

### • Safety Program Development (5%)

- Knowledge: Selecting relevant safety programs, trend analysis.
- Skills: Developing programs for fall protection, respiratory safety, and ladder use.



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## 3. Leadership, Communication, and Training (15.5%)

- **Training Delivery Methods and Behavioral Safety (5%)**
  - Knowledge: Classroom, on-the-job training, behavior-based safety techniques.
  - Skills: Developing site-specific training, motivating and coaching personnel.
- **Effective Communication Strategies (5%)**
  - Knowledge: Communication methods, equipment manufacturer and supplier consultation.
  - Skills: Disseminating information, fostering a safety-oriented culture.
- **Documentation and Ethical Standards (5.5%)**
  - Knowledge: Information confidentiality, BCSP Code of Ethics.
  - Skills: Maintaining confidentiality, promoting ethical standards in safety.

## 4. Emergency Preparedness and Fire Prevention (10.3%)

- **Fire Protection and Prevention (5%)**
  - Knowledge: Fire extinguisher classes, inspection criteria.
  - Skills: Conducting fire safety inspections, maintaining fire equipment.
- **Emergency Response Systems (5.3%)**
  - Knowledge: Emergency action and response plans, first aid requirements.
  - Skills: Developing and implementing emergency action plans, training personnel in first aid basics.

## 5. Continuing Education and Professional Development (9.2%)

- **Staying Updated on Safety Standards and Practices (5%)**



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Skills: Accessing and applying updated standards, reviewing recent incident trends.

- **Professional Development (4.2%)**

- Knowledge: Importance of lifelong learning in safety management.
- Skills: Participating in continuing education, obtaining certifications, attending safety workshops.

**Total: 100%**

This blueprint aligns training with core competencies, including hazard identification, leadership, communication, risk management, and professional development, ensuring participants are prepared for comprehensive safety roles in the construction sector.



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## Domain 3 Regulatory - 10%

### Knowledge of:

1. Federal OSHA regulations
2. State Adopted OSHA Regulations
3. ANSI, NFPA, NEC and other national consensus standards
4. OSHA directives and interpretations
5. Knowledge of other regulatory agencies (FEMA, FAA, Corps of Engineers, etc.,)
6. Knowledge of building codes and life safety standards
7. Knowledge of emergency management procedures
8. Knowledge of human factors impacting safety.
9. Knowledge of workplace violence prevention strategies and program development

### Skill to:

1. Communicate to Management and Others Regulatory Information
2. Understand Business Fundamentals
3. Conflict Resolution Between Company Standards and Regulatory Standards
4. Leadership will have excellent verbal communication skills. Duties include speaking with complainants, employers, state, and local agencies (including law enforcement)
5. The CEHSP will be required to evaluate and make recommendations on unusual problems.
6. Maintain current and accurate SDS files for all materials on site.



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## Domain 4

Continuing Education / Qualifications – 10%

### Qualifications

#### REQUIRED QUALIFICATIONS:

- A bachelor's degree in occupational safety and health, safety studies, natural science, business or public administration, education, or allied field.

#### AND

- Four years of professional experience in occupational safety, health, environmental programs.
- *Note: A master's degree in occupational safety and health, safety studies, natural science, business or public administration, education or allied field may be substituted for two years of the above professional work experience requirement.*

#### OR

- Equivalent education/experience. 5-7 years of construction management, occupational health and safety, engineering, or a related field experience.

#### OR

- Must possess a High School diploma or GED equivalency and a minimum of ten (10) years' experience in Construction Industry

### Skill to:

1. Maintain Continuing Education / Recertification Qualification Points according to IASHEP Recertification Guidelines.



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NOTHING ELSE FOLLOWS

