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Certified Hazard Control Manager (CHCM) Exam Content

The Certified Hazard Control Manager (CHCM) exam is comprehensive in scope and contains from 100-125 multiple choice questions. The exam is challenging but does not contain questions requiring math or engineering calculations. The exam content has been developed with the assistance of practicing professionals and subject matter experts. The Board statistically analyzes each exam to ensure the validity of all questions. The Board also uses analytical techniques to ensure the reliability of each exam version to assess the competency of each candidate. Each exam may contain 5 to 15 “trial questions” that are being validated for use on future exam forms. The exam will contain questions from the following competency areas.

I. Hazard Control Management Concepts And Principles (45% Of Questions)

A. Hazard Control Techniques and Safety Management Principles

1. Defining Accidents, Accident Myths, and Accident Generation (Hazard Closing)
2. Accident Prevention, Accident Investigations, and Accident Costing
3. Hazard Inspections, Audits, and Surveys
4. Root Cause Analysis, Failure Mode Analysis, and Fault Tree Methodology
5. Hazard Control Challenges
6. Industrial Hygiene and Health Principles
7. System Safety Methods
8. Management Safety Responsibilities
9. Supervisor Safety Responsibilities
10. Accident and Injury Analysis
11. Controlling Hazards (Engineering, Work, and Administrative Controls)
12. Personal Protective Equipment (PPE)
13. Hazard Categories (Physical, Biological, Chemical, Ergonomics, Psychosocial)
14. Safety Committees Composition and Responsibilities
15. Safety Policies, Plans, Rules, and Procedures
16. Hazard Control and Interfacing Organizational Functions
17. Job Hazard Analysis
18. Orientation, Training, and Education

B. General Management Topics

1. Concepts and Functions of Management
2. Leadership Principles, Human Relations, and Correcting Unsafe Behaviors
3. Understanding Organizational Cultures (Overt and Covert)
4. Management by Exception and Migrating Decision Making,
5. Organization Transparency and Trust
6. Open and Closed Systems
7. Oral and Written Communication

II. Government Agencies And Standards (20% Of Questions)

A. Occupational Safety and Health Administration

1. OSH Act and General Industry Standards (29 CFR 1910)
2. Injury Reporting and Recording (29 CFR 1904)
3. Bloodborne Pathogens (29 CFR 1910.1030)
4. Hazard Communication (29 CFR 1910.1200)
5. Respiratory Standard (29 CFR 1910.134)
6. Lockout and Tagout (29 CFR 1910.147)
7. Permit Confined Spaces (29 CFR 1910.146)
8. Hazardous Waste Operations and Emergency Response (29 CFR 1910.120)
9. Ionizing Radiation (29 CFR 1910.1096)
10. Asbestos General Industry Standard (29 1910.1001)
11. OSHA Air Contaminant Standards (29 CFR 1910, Subpart Z)
12. OSHA Electrical Standards (29 CFR 1910.303)

B. Environmental Protection Agency (40 CFR)

1. Resource Conservation and Recovery Act (RCRA)
 - a. Hazardous Waste
 - b. Solid Waste
 - e. Contingency Planning
 - f. Universal Waste Act
2. Clean Water Act (CWA)
3. Clean Air Act (CAA)
4. Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
5. Asbestos Regulation

C. Nuclear Regulatory Commission (10 CFR)

1. Nuclear Wastes
2. Licenses and Isotope Management

D. Department of Transportation (49 CFR)

1. Key Agencies
2. Federal Motor Carrier Safety Administration (FMCSA)

E. Department of Health and Human Services (42 CFR)

1. National Institute for Occupational Safety and Health (NIOSH)
2. Centers for Disease Control and Prevention (CDC)
3. Agency for Toxic Substances and Disease Registry (ATSDR)

F. Department of Homeland Security (DHS)

1. Federal Emergency Management Agency (FEMA)
2. Emergency Management Principles

III. Hazard Identification, Evaluation, And Control (20% Of Questions)

A. Physical Hazards

1. Electrical hazards
2. Machine/equipment Hazards
3. Workplace noise
4. Heat/cold exposures
5. Ionizing radiation
6. Non-ionizing radiation (Lasers)
7. Fires and oxygen deficient atmospheres
8. Lockout and tagout risks
9. Permit confined spaces

B. Chemical Hazards

1. Disinfectants/sterilants/pesticides
2. Liquid chemicals/solvents
3. Air contaminants
4. Compressed gases

C. Ergonomic/Environmental Hazards

1. Workstation hazards and design
2. Repetitive jobs/tasks
3. Slips, trips, and falls
4. Musculoskeletal disorders and lifting hazards

D. Biohazards

1. Legionella
2. TB exposures
3. Waste disposal
4. Sharps handling

E. Psycho-Social Hazards

1. Workplace violence
2. Security and campus crime
3. Substance abuse
4. Unsafe behaviors
5. Workplace stress
6. Sleep deprivation

E. Developing Hazards Departmental Hazards

1. Robotics
2. Nanotechnology
3. Product Safety (Imports, Food, Medical Equipment)

IV. Voluntary And Standards Organizations (15% Of Questions)

- A. National Fire Protection Association (NFPA)
- B. American National Standards Institute (ANSI)
- C. American Society of Testing Materials (ASTM)
- D. Safety Equipment Institute (SEI)
- E. Laser Institute of America (LIA)
- F. American Society of Heating, Refrigerating, & Air Conditioning Engineers (ASHRAE)
- G. Underwriters Laboratory (UL) and Factory Mutual (FM)
- H. American Conference of Government Industrial Hygienists (ACGIH)
- I. National Sanitation Foundation (NSF)
- J. American Industrial Hygiene Association (AIHA)
- K. Institute of Electrical and Electronics Engineers (IEEE)
- L. International Organization for Standardization (ISO)