



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEEVELOPMENT
END OF SEMESTER EXAMINATION MAY - AUGUST 2024

HMD 228: Occupational Health safety.

DATE: 12th August, 2024

TIME: TWO Hours

Start:

Stop:

INSTRUCTIONS

1. This exam is marked out of 70 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (30 marks)
Section B: Long Answer Questions (40 marks)

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. Outline four indirect costs of accidents(4Marks)
2. Outline four benefit of health and safety programs(4Marks)
3. Identify five hierarchical approaches of controlling hazards (5Marks)
4. State the purpose of an emergency action plan in managing workplace hazards(1mark)
5. Outline how workplace stress be considered a hazard, and what can be done to manage (2 Marks)
6. Highlight two potential health of effects of long-term exposure to chemical hazards(2Marks)
7. Distinguish between a hazard and a risk? (2Marks)
8. Match the items on the left to those on the right(10Marks)

A	B
i. Ergonomics	A. The science of designing the workplace to fit the worker.
ii. PPE (Personal Protective Equipment)	B. Equipment worn to minimize exposure to workplace injuries and illnesses.
iii. MSD (Musculoskeletal Disorders)	C. Injuries or disorders that affect the human body's movement or musculoskeletal system.
iv. Noise-Induced Hearing Loss	D. Hearing impairment resulting from exposure to loud sound.
v. Workplace Stress	E. Emotional and mental strain caused by work-related pressures.
vi. Industrial Hygiene	F. The practice of anticipating, recognizing, evaluating, and controlling workplace conditions that may cause workers' injury or illness.
vii. Occupational Asthma	G. A type of asthma triggered by inhaling fumes, gases, dust, or other potentially harmful substances while on the job.
viii. Repetitive Strain Injury (RSI)	H. Injuries caused by repetitive tasks, forceful exertions, or sustained awkward positions.
ix. Hazard Communication Standard (HCS)	I. OSHA standard requiring employers to inform employees about the hazardous chemicals they are exposed to.
x. Job Hazard Analysis (JHA)	J. A technique that focuses on job tasks to identify hazards before they occur.

SECTION B: ANSWER ANY TWO (2) QUESTIONS

9. Hospital ABC clinic.,.

Incident: A pharmaceutical technician, Sarah Kipkeu was restocking a shelf when she slipped and fell on a wet spot on the Chemist floor. She sustained a fractured wrist and required surgery.

Details:

- ✓ The chemist floor had recently been mopped by a cleaning crew.
- ✓ No warning signs were placed to indicate a wet floor.
- ✓ Sarah did not report seeing any wet floor signs in the vicinity of her accident.
- ✓ The warehouse has a history of similar incidents, with two other employees slipping and falling on wet floors in the past year. These incidents were reported but no corrective actions were documented.

Challenge-

- a) Identify the Hazards: (2marks)
- b) Root Cause Analysis: identify 3 factors may have contributed to the incident: (6 marks)
- c) Outline the Legal Implications: (2 Mark)
- d) Outline 5 Recommendations: (10 marks)

10. You are a teaching assistant leading a high school chemistry lab experiment.

While prepping for the lab, you discover a leaking drum containing a dilute solution of hydrochloric acid (HCl). The leak is small, but there is a noticeable odor and a small puddle on the floor beneath the drum

The Challenge: Respond to the chemical hazard situation while ensuring the safety of yourself and the students. . (20marks)

11. You are a team leader for a customer service team at a health facility company.

Recently, you've noticed a decline in team morale and engagement. Customer satisfaction scores have dipped, and several team members seem less motivated and productive.

The Challenge: Develop strategies to address the team's disengagement and reignite their motivation. (20 Marks)