



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

ENVIRONMENTAL HEALTH

**MODULE: Occupational Safety, Health and
Environmental Management**

PAPER NO: 605/23/M11

DURATION: 3 hours

MAY/JUNE 2025 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

- 1. Answer any five (5) questions.**
- 2. Do not write your name on the answer booklet.**

QUESTION 1

- a) Identify two (2) hazards that may be present on construction site. (2 marks)
- b) Discuss four (4) measures that the employer is required to take when employees are exposed to noise at or above the upper exposure action level. (8 marks)
- c) Discuss the effects of bad lighting and how safe lighting can be achieved in the work place. (10 marks)

QUESTION 2

- a) With the aid of a graph, explain the dose-response relationship in toxicology. (10 marks)
- b) Critique the importance of PPC/E in the control of occupational hazards. (10 marks)

QUESTION 3

- a) Identify and write short notes on the three (3) classes of dust. (15 marks)
- b) Outline five (5) effects of dust on the worker's health. (5 marks)

QUESTION 4

- a) Identify two (2) types of emergencies in the work place for which employees may need to be evacuated. (2 marks)
- b) Discuss the reasons and benefits of undertaking regular fire drills in the workplace. (8 marks)
- c) Describe and explain the advantages of using fixed machine guards at a workplace. (10 marks)

QUESTION 5

- a) Outline the duties of the employer in relation to accident prevention, as specified in the SI 68 of 1990 (Accident Prevention and Workers Compensation Scheme). (10 marks)
- b) Discuss the possible health risks associated with working in a sitting position for prolonged period of time. (10 marks)

QUESTION 6

Occupational diseases are referred to as 'hidden epidemics'. Discuss why they are so called, highlighting the costs of these work-related diseases. (20 marks)

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