



**UNIVERSITY OF SWAZILAND**  
**Faculty of Health Science**

**Department of Environmental Health Sciences**

**Final Examination 2009**

**Title of paper: Institutional Environmental Health and Safety**

**Course code: EHS 532**

**Time allowed: 2 hours**

**Marks allocation: 100 Marks**

**Instructions:**

- 1) Read the questions and instructions carefully**
- 2) Answer any Four questions**
- 3) Each question is weighted 25 marks**
- 4) Write neatly and clearly**

**This paper is not to be opened until the invigilator has granted permission**

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**Answer any four (4) questions**

**Question 1**

- a) Explain an ergonomic design of a standing workstation [5 Marks]
- b) Discuss an ergonomic design of a sitting workstation – including the working surface and seat [10 Marks]
- c) What are the adverse health and safety effects of working shifts to the worker? [10 Marks]

**Question 2**

- a) What is ISO? [1 Mark]
- b) Outline the provisions of the ISO 14001 Environmental management system standards [8 Marks]
- c) Outline the provisions of the ISO 9001 Quality management system standards [8 Marks]
- d) Outline the provisions of the OHSAS 18001 Occupational health and safety management system standards [8 Marks]

**Question 3**

Occupational health includes maintaining the social well-being of employees. What programme can you implement to ensure that the social well-being of employees is addressed at the workplace? Explain how it will assist the employees and the company.

[25 Marks]

**Question 4**

- a) What does manual handling involve? [5 Marks]
- b) Explain the five (5) factors to consider when developing manual material handling guidelines. [20 Marks]

**Question 5**

- i) In relation to the Occupational Safety and Health Act 2001, outline;
- a. How an accident should be reported [2 Marks]
- b. How employees are protected from being victimised [5 Marks]
- c. Duties of the employer [12 Marks]
- ii) How does occupational stress affect the worker and the company? [6 Marks]