UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health Sciences

Final Examination 2006

Title of paper: Risk Assessment, Management and Communication

Course code: EHS 534

Time allowed: 3 hours

Marks allocation: 100 Marks

Instructions:
1) Read the questions and instructions carefully
2) Answer Five questions
3) Each question is weighted 20 marks
4) Write neatly and clearly

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

Answer any 5 questions

Question 1

a) Define task analysis   [5 Marks]

b) Give any 5 areas addressed by task analysis in the workplace?

[15 Marks]

Question 2

a) Define Risk assessment and factors to consider in the assessment

[8 Marks]

b) Define hazard identification and give 4 methods of identification

[6 Marks]

c) Outline the components life cycle of a system

[6 Marks]

Question 3

In a 2-hour session, you are to make a presentation to management on "**Accident investigation and 1 method to adopt**".

a) Write the objectives of the session

[4 Marks]

b) Write points to discuss in the session

[12 Marks]

c) Write 4 questions you would ask a witness when investigating

[4 Marks]

Question 4

Define and outline purpose of any 4 of the risk-identification methods.

a) Hazard and Operability

b) Preliminary Hazard Analysis

c) Failure Mode and Effect Analysis

d) Fault Tree Analysis

e) Fault or Functional Hazard Analysis

f) Job Safety Analysis

[20 Marks]

Question 5

a) Explain the components of an emergency preparedness plan

[16 marks]

b) Give 4 functions of an accident investigator?

[4 Marks]

Question 6

a) Discuss the 3 sources of information needed for an effective communication in health and safety. [12 Marks]

b) *Refer to the Factories, Machinery and Construction Work Act 1972, and Occupational Safety and Health Act 2001.*

   i.   Define and discuss how accidents and diseases are report [6 Marks]

   ii. Discuss how to handle machinery or equipment at the accident scene. [2 Marks]