

**REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF MINERALS AND ENERGY  
EXAMINATION FOR THE MINE SURVEYOR'S CERTIFICATE OF COMPETENCY**

Date: 14<sup>th</sup> April 2005 (Thursday)  
TIME: 12:30 – 14:30 (2 hours)

TOTAL MARKS: 100  
TO PASS: 60

**MINING LEGISLATION**

**PART A – THE MINE HEALTH AND SAFETY ACT, 1996 (ACT 29 OF 1996) AS AMENDED (MHSA)**

**QUESTION 1**

a) Define the following in terms of the above-mentioned Act

- |      |        |     |
|------|--------|-----|
| (i)  | hazard | (1) |
| (ii) | risk   | (2) |

b) An employer has certain responsibilities towards employees with regard to hazards and risks. State four (4) of these. (6)

c) After a risk is assessed the employer must implement certain measures to ensure the safety of employees exposed to this risk. State three (3) of these measures. (3)

d) If any recorded risk remains (can not be eliminated), what is the employer required to do in terms of the Act? (2)

(14 marks)

**QUESTION 2**

Name four (4) measures and/or procedures for which every employer must ensure that every employee is properly trained in.

(4 marks)

**QUESTION 3**

State in your own words the rules governing codes of practice as set out in the Act.

(7 marks)

## PART B – MINE SURVEYING REGULATIONS

### QUESTION 4

Define the following in terms of the “new” regulations as stipulated in Chapter 17 of the MHSA

- a) fluid material
- b) hazardous service. (4 marks)

### QUESTION 5

As a certified mine surveyor, you are appointed as a competent person in charge of mine surveying on a new underground colliery.

- a) Name the eight (8) plans which are required to be constructed in terms of the “new” regulations as stipulated in Chapter 17 of the MHSA. (4)
- b) What can be done to reduce this number of plans to six (6) and still full-fill the requirements of the regulations? (3)
- c) What are the requirements of the regulations regarding the:
  - (i) departmental copies of plans when plans are constructed by means of computer aided draughting? (7)
  - (ii) material and size of the plans? (2)
  - (iii) updating of plans ? (2)
  - (iv) inventory of plans? (6)

(24 marks)

### QUESTION 6

What are the provisions made in the regulations with regard to the keeping of a “Mine Ventilation and Rescue Plan” on an underground colliery?

(15 marks)

### QUESTION 7

State the requirements with regard to mine plans and survey records as set out in the regulations regarding the procedures to be adopted before and after a mine is closed.

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(15 marks)

### **PART C – THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 AND REGULATIONS.**

### QUESTION 8

- a) When can the holder of a mining right apply for a closure certificate? (4)
- b) (i) To whom must application be made for a closure certificate? (2)
- (ii) Within what time period must such application be made? (1)
- (iii) What report must accompany such application? (1)
- (iv) Before a closure certificate is issued, who must confirm that all relevant provisions pertaining to certain issues have been addressed? (2)

(10 marks)

### QUESTION 9

An application for a mining right to the Regional Manager, must be accompanied by a plan of the land to which the application relates. Name 7 (seven) items, which must appear on such plan.

(7 marks)

**TOTAL 100 MARKS**