

**REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF MINERAL RESOURCES  
EXAMINATION FOR THE MINE SURVEYOR'S CERTIFICATE OF  
COMPETENCY**

**Date:** 14<sup>th</sup> October 2010

**100**

**Time:** 12:30 – 14:30 (2 hours)

**Total Marks**

**To Pass 60**

**MINING LEGISLATION**

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

**QUESTION 1**

- (a) State the detail that must be shown in the report prepared by the employer after the completion of an investigation into every accident that must be reported in terms of the above-mentioned Act as well as every serious illness and health threatening occurrence. (4)
- (b) To whom must a copy of the above report be delivered? (2)

[6 marks]

**QUESTION 2**

As an employee at a mine you have certain duties towards health and safety in terms of the Act. Describe in your own words what these duties are.

[9 marks]

**QUESTION 3**

- (a) Define “inspector” in terms of the above-mentioned Act. (2)
- (b) Who may accompany an Inspector when performing any function under the above-mentioned Act? (1)
- (c) What are the powers of an Inspector if he has reason to believe that an employer has contravened or failed to comply with a handwritten instruction with regard to non compliance of any provision of this Act? (2)

[5 marks]

#### QUESTION 4

- (a) The person presiding at an enquiry has certain designated powers in terms of the provisions of the Act. Briefly describe these powers. (6)
- (b) State the provisions of the Act with regard to the falsifying of documents. (4)

[10 marks]

#### PART B – MINE SURVEYING REGULATIONS (CHAPTER 17)

#### QUESTION 5

Where mining operations approach surface structures and objects that require protection against mining, it is required that the employer comply with certain precautionary measures. State the requirements of the regulations in this regard and what further compliance to the regulations must be adhered to by the employer.

[11 marks]

#### QUESTION 6

The regulations prescribe that the competent person in charge of surveying, mapping and mine plans at a mine must construct accurate mine plans.

- (a) What areas of the mine must be covered by these plans? (4)
- (b) On what material must these plans be drawn and what must the size of the plans be? (4)
- (c) What are the requirements of the regulations where plans are deficient? (2)
- (d) What are the requirements of the regulations with regard to the confidentiality of information contained in any plan? (2)

[12 marks]

### QUESTION 7

As the competent person in charge of surveying, mapping and mine plans at an underground mine you are responsible for the construction and keeping of accurate prescribed mine plans which must be readily available to the employer. With regard to the plans of the workings:

- (a) Define “workings” in terms of the regulations. (3)
- (b) What further information, excluding the detail that is required to be depicted on all prescribed plans, must be shown on the plans of the workings? (9)
- (c) Where a massive or irregular body is worked underground, what other plans of the workings must be kept? (2)
- (d) To what scale must plans of workings be drawn? (2)
- (e) How often is it required that these plans must be updated? (1)

[17 marks]

### **PART C – THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT NO 28 OF 2002) AND REGULATIONS**

### QUESTION 8

State five objects of the above-mentioned Act. [5 marks]

### QUESTION 9

- (a) To whom must an application for a prospecting right be lodged and where must it be lodged? (2)
- (b) Within what period must the applicant be notified in writing whether the application for a prospecting right is accepted or does not comply? (1)
- (c) If the application for a prospecting right is accepted, what further information is required to be submitted? (3)
- (d) Under what circumstances may the Minister cancel or suspend any reconnaissance permission, prospecting right, mining right or retention permit? (5)

[11marks]

### QUESTION 10

An application for any permission, right or permit in terms of the above-mentioned Act must be accompanied by a plan of the land to which the application relates. In terms of the regulations of the Act what detail must be contained on this plan?

[5 marks]

### QUESTION 11

The holder of any right or permit must comply with applicable legislative requirements regarding the disposal of waste material. In this regard what do the regulations prescribe in terms of:

- (a) the dumping or impounding of rubble, litter, garbage, rubbish or discards of any description? (2)
- (b) the establishment of sand dumps or slimes dams on the banks of any stream, river, dam, pan wetland or lake? (4)
- (c) coal debris? (3)

[9 marks]

**TOTAL 100 MARKS**