

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

Date: 9 October 2008
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**

QUESTION 1

- a) Define “mine” when used as a verb, in terms of the above-mentioned Act. (4)
- b) What measures must an employer take, in terms of the above Act, to ensure safety at every mine that is being worked? (10)

[14 marks]

QUESTION 2

Every employer, after consulting the health and safety committee at a mine must determine, in terms of the above Act, all measures, including changing the organisation of work and the design of safety systems of work necessary to assess and respond to risk. In this regard describe the measures every employer must implement when addressing risk.

[6 marks]

QUESTION 3

When will any person, other than an employer, fail to comply with the provisions of the above-mentioned Act?

[10marks]

-2-/ PART B

PART B – MINE SURVEYING REGULATIONS

QUESTION 4

- a) Name the survey system to which all mine surveys must conform. (1)
- b) Who determined this survey system and where is it legislated? (2)
- c) What provision has been made for mines who wish to retain their survey systems established prior to 1 January 1999? (3)

[6 marks]

QUESTION 5

- a) Define the following in terms of the above regulations:
 - (i) “restricted area” (1)
 - (ii) “risk assessment” (2)
- b) 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)

[14 marks]

QUESTION 6

As the competent person in charge of surveying, mapping and mine plans at an underground coal mine, where mining operations are being conducted at a depth of approximately 100 metres below surface, you are responsible for the construction and keeping of up to date prescribed mine plans. These plans are drawn by means of computer aided draughting (CAD). The mine is operating on a limited budget and costs are to be kept at a minimum.

- a) Name the minimum prescribed mine plans required to be kept on this mine. (Marks will be deducted for incorrect plans mentioned). (6)
- b) What areas must at least be covered by these plans? (3)
- c) In order to save costs, certain plans mentioned in 6(a) above may be combined. Name these plans and state what the name of the combined plans would be. (6)
- d) On what material must the above-mentioned plans be drawn and to what size must these plans be? (4)
- e) What do the regulations prescribe with regard to the provision of Departmental Copies of the prescribed mine plans? (4)

[23 marks]

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

QUESTION 7

- a) The Minister must, in terms of the provisions of the above-mentioned Act, grant a mining right to an applicant if certain requirements of the said Act have been complied with. State seven (7) of these requirements. (7)
- b) When does a mining right that has been granted come into effect? (1)
- c) For what period is a mining right valid? (2)

[10 Marks]

QUESTION 8

- a) In terms of the above Act, when is it required that the holder of a mining right, prospecting right, retention permit, or mining permit apply for a closure certificate? (4)

b) Within what period must such application be made? (1)

c) Who must issue such closure certificate? (1)

[6 Marks]

QUESTION 9

What do the provisions of the above Act prescribe with regard to the management of residue stockpiles and residue deposits?

[4 marks]

QUESTION 10

State the requirements of the regulations to the above-mentioned Act with regard to:

a) Water management and pollution control at all proposed or existing prospecting or mining operations. (4)

b) The accumulation of coal debris. (3)

[7 marks]

TOTAL 100 MARKS