

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

**Date : 12 October 2006 (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**

QUESTION 1

As far as reasonably practicable every employer is required, in terms of the provisions of the Act, to staff a mine with due regard to health and safety.
State the requirements of the Act in this regard.

[10 marks]

QUESTION 2

- 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) To whom may the Chief Inspector of Mines delegate any power or assign the performance of any duty conferred or imposed upon the Chief Inspector of Mines by or under this Act. (4)

[10 marks]

QUESTION 3

State the provisions of the Act with regard to:

- a) breach of confidence. (4)

-2-/b) hindering

- b) hindering administration of the Act. (2)
 - c) falsifying of documents. (4)
- [10 marks]

PART B – MINE SURVEYING REGULATIONS

QUESTION 4

- a) What reasonable measures must be taken by an employer when removing any type of support provided for the protection of the surface of a mine or structures or objects thereon? (3)
- b) Describe the measures required to be taken by an employer where surface subsidences or cavities have been brought about as a result of mining operations. (4)
- c) What measures must be taken by an employer where surface ground movement, as a result of mining operations, poses significant risk? (1)

[8marks]

QUESTION 5

- a) What is meant by the term “Primary Survey (Class A)”? (3)
- b) State the formula for determining the allowable error in any “Primary Survey (Class A)”. (2)
- c) What do the regulations prescribe with regard to accurate representation on plan? (7)

-3-/ d) To what

- d) To what standard of accuracy (in metres) must all fixed positions determined at sea, for the purpose of locating detail to be shown on plan, be verified? (1)
- e) Where the prescribed mine plans are deficient, who may cause the mine to be surveyed and have new statutory mine plans prepared? (1)
- f) Who will bear the cost of the survey and the construction of new plans mentioned in Question 5(e) above? (1)

[15marks]

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? (5)

[9 marks]

QUESTION 7

- a) What do the regulations prescribe regarding boundary pillars to be left standing (in situ) on every mine? (6)

-4-/ b) What

- b) What procedures must be followed by an employer if it is required to work or cut through any portion of its mine boundary pillar where the employer of the adjacent mine cannot be traced or found?

(2)

[8marks]

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

QUESTION 8

Once the Regional Manager is satisfied that all the required information regarding an application for a prospecting right has been received, the application together with the relevant information must be forwarded to the Minister for consideration. The Minister will only grant the prospecting right if certain requirements of the Act have been complied with.

- a) Name these requirements. (9)
- b) If the prospecting right is granted, when must the holder thereof commence with prospecting activities? (2)
- c) For what period is the prospecting right valid and what is the maximum allowable period? (2)

[13 marks]

QUESTION 9

In accordance with the requirements for mine closure, the holder of a prospecting right, mining right, retention permit or mining permit must ensure that the six principles for mine closure are complied with. Briefly describe these principles.

[8 marks]

QUESTION 10

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 respect 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