

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

Date: 19 April 2007
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

The employer of every mine that is being worked must ensure as far as reasonably practicable that the mine is designed, constructed and equipped to ensure safety. In this regard, what measures must the employer take, in terms of the provisions of the above-mentioned Act, to ensure the safety at such mines?

[9 marks]

QUESTION 2

- a) Who may an employer appoint to perform any of the employers functions in terms of the above Act. (2)
- b) Would the appointment mentioned above relieve the employer of any duty imposed upon him by this Act? (1)

[3 marks]

QUESTION 3

- a) When must an employer prepare and implement a code of practice on any matter affecting the health and safety of employees and other persons who may be directly affected by activities at a mine? - (1)

-2-/ b) What

- b) What must the above code of practice comply with? (2)
- c) When and under what circumstances is it required by an employer to review any code of practice? (3)

[6 marks]

QUESTION 4

The Act prescribes that where the employment of an employee at a mine is terminated for any reason, and the employee has been subjected to medical surveillance, the employer must arrange an exit medical examination for such person.

- a) Who is required to conduct the above-mentioned exit medical examination? (1)
- b) What does the Act further require from the person conducting the exit medical examination? (6)

[7 marks]

QUESTION 5

- a) Who may grant an exemption from any or all the provisions of the Act or of a notice or instruction issued under this Act? (1)
- b) What is required to be specified in the certificate of exemption granted? (2)
- c) What are the duties of the employer when any exemption is granted to a mine in terms of the provisions of this Act? (2)

[5marks]

PART B – MINE SURVEYING REGULATIONS

QUESTION 6

In terms of the provisions of the above regulations, what is the responsibility of an employer where mining operations approach surface structures and objects that require protection against mining?

[7 marks]

QUESTION 7

As the competent person in charge of surveying, mapping and mine plans, 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) 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)
- b) Where a massive or irregular ore body is worked underground, what other plans of the workings must be kept? (2)
- c) Where bedded mineral deposits are worked by surface mining methods, what detail with regard to such mining must be shown on the surface plan? (7)

[18 Marks]

QUESTION 8

- (a) Before a mine is abandoned, closed or rendered inaccessible the regulations prescribe that certain procedures pertaining to prescribed mine plans and books (survey records) must be followed.
In this regard, describe the procedures that must be adopted in order to comply with aforesaid regulations. (12)

-4-/ (b) Once

- (b) Once the requirements and procedures mentioned above have been adhered to, what further requirement, in terms of the regulations must be complied with? (3)

[15 Marks]

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

QUESTION 9

- a) In terms of the above-mentioned Act, a mining permit may only be issued under certain conditions. What are these conditions? (3)
- b) For what period is a mining permit valid and for how many periods may it be renewed? (3)
- c) Briefly describe the instances when any right, permit, permission or licence, granted or issued in terms of the above Act, will lapse. (6)

[12 marks]

QUESTION 10

- a) Define “residue stockpile” in terms of the above-mentioned Act? (5)
- b) State the requirements of the above Act with regard to the management of residue stockpiles and residue deposits. (5)

[10 marks]

QUESTION 11

- a) Define “produced water” in terms of the Regulations of the above-mentioned Act. (3)

-5- b) What

- b) What do the provisions of the Regulations of the above Act prescribe with regard to water management and pollution control? (5)

[8 marks]

TOTAL 100 MARKS