



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

MINE SURVEYOR'S CERTIFICATE OF COMPETENCY EXAMINATION

MINING LEGISLATION

DATE: 04 OCTOBER 2016

**TOTAL MARKS: 100
TO PASS: 60**

**TIME ALLOWED: 2 HOURS
(12h30 to 14h30)**

NOTE:

- This question paper consists of **FOUR** pages including cover page.
- All questions must be answered.
- All answers and sketches to be presented in a neat and decipherable manner. Papers will not be marked if not decipherable.
- Restrict the use of highlighters.
- Do not use a red pen.
- Read the instructions on the front page of your answer book carefully.
- No cellular phones shall be allowed in the examination venue.
- The use of computers, laptops and palmtops is prohibited.

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

QUESTION 1

In terms of the “Definitions” of this Act, define the following:

- (a) “Principal Inspector of Mines” (2 marks)
 - (b) “Inspector” (2 marks)
 - (c) “Owner” in relation to a mine (6 marks)
- [10 marks]

QUESTION 2

- (a) Who may the Employer appoint to perform any function entrusted to such employer ? (1 mark)
 - (b) 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 the activities at a mine ? (1 mark)
 - (c) When does an employee have the right to leave any dangerous working place ? (4 marks)
- [6 marks]

QUESTION 3

- (a) State the provisions of the Act with regard to ensuring safety at a mine which is not working. (5 marks)
 - (b) State the provisions of the Act with regard to producing any documents required by an Inspector or the Chief Inspector of Mines. (5 marks)
 - (c) In terms of Chapter 14 – “Protection of the surface and the workings”

What are the provisions of the Act with regard to the collapse of the surface, buildings and structures thereon ? (4 marks)
- [14 marks]

PART B – REGULATIONS REGARDING SURVEYING, MAPPING AND MINE PLANS

CHAPTER 17 OF THE MINE HEALTH AND SAFETY ACT REGULATIONS (AS AMENDED)

QUESTION 4

- (a) What is meant by the term “Primary Survey” (Class A) ? (3 marks)
- (b) Which formula would you use to calculate allowable error in a Secondary Survey (Class B) and what is the allowable error ? (2 marks)
- (c) What do the Regulations prescribe for accurate representation on plans and what must be done where accurate representation on plans is not possible ?

(7 marks)
[12 marks]

QUESTION 5

Where mining operations approach any land, surface structures or objects that require protection against mining, it is required that the Employer complies with certain precautionary measures. State the requirements of the Regulations in this regard.

What further compliance must be complied with by the Employer ?

[20 marks]

QUESTION 6

Define the following in terms of the above Regulations:

- (a) “Bedded Mineral Deposit” (4 marks)
- (b) “Director: Mine Surveying” (1 mark)
- (c) “Workings” (3 marks)
[8 marks]

PART C – THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT NO 28 OF 2002) AND REGULATIONS, (AS AMMENDED, 2008)

QUESTION 7

- (a) To whom and where must an application for a prospecting right be lodged ? (2 marks)
 - (b) Within what period must the applicant be notified in writing whether the application for a for a prospecting right is accepted or does comply ? (1 mark)
 - (c) If the application for a prospecting right is accepted, what further information is required to be submitted ? (3 marks)
 - (d) If a prospecting right is granted, when must the holder thereof commence with prospecting activities ? (2 marks)
 - (e) In terms of the above-mentioned act, what information must be included in an application for the renewal of a prospecting right ? (7 marks)
 - (f) For what period may a prospecting right be renewed. (1mark)
- [16marks]

QUESTION 8

In accordance with the requirements of the above-mentioned regulations regarding mine closure, the holder of a prospecting right, mining right retention right or mining permit must ensure that the six (6) principles for mine closure are complied with. Briefly describe these principles.

[8 marks]

QUESTION 9

State the requirements of the above-mentioned regulations with regard to blasting, vibration and shock management control.

[6 marks]

TOTAL 100 MARKS