

Minerals Council South Africa



EXAMINATION PAPER

SUBJECT: CHAMBER OF MINES OF SOUTH AFRICA - CERTIFICATE IN MINE ENVIRONMENTAL CONTROL	EXAMINER: S B Kesilwe
PAPER 6 – THE MINE HEALTH AND SAFETY ACT REGULATIONS	MODERATOR: B Letlape
SUBJECT CODE: COMMEC6	TOTAL MARKS: [100]
EXAMINATION DATE: 15 OCT 2024 TIME: 08:30 – 10:30	PASS MARK: (60%)
NUMBER OF PAGES: 3 (including this page)	
SPECIAL REQUIREMENTS: 1. ANSWER ALL THE QUESTIONS 2. This is an OPEN BOOK EXAM . References, including guidance notes, guidelines for mandatory codes of practices, the Mine Health and Safety Act and Regulations and Regulations in force in terms of Schedule 4 of the Mine Health and Safety Act are permitted. NO PREVIOUS EXAMINATION QUESTIONNAIRES WILL BE ALLOWED. 3. Put your ID number on the outside cover of each book used, and on any graph paper or other loose sheets handed in. NB: YOUR NAME MUST NOT APPEAR ON ANY ANSWER BOOK OR LOOSE SHEETS. 4. Write in ink on the right hand page only – the left hand page will not be marked. 5. Illustrate your answers by means of sketches or diagrams wherever possible. 6. Please quote all the relevant regulation numbers. 7. Keep your answers short and to the point, it is not necessary to provide word-perfect reproductions of the regulations. In many cases a single word or phrase will suffice. 8. Please note that you are not allowed to contact your examiner or moderator regarding this examination. 9. Cell phones are NOT allowed in the examination room. 10. You are encouraged to make use of the CoMCert Tip-off Hotline whenever you witness or suspect any wrongdoing related to the CoMCert Examinations on landline 0800 118 998 or alternatively you can use email COMCert@tip-offs.com. This tip-off hotline and tip-off email is managed anonymously and confidentially through an independent service provider.	

QUESTION 1

- 1.1 Define the following concept and quote the relevant Section or Regulation.
- 1.1.1 Competent person.
 - 1.1.2 Controlled mine.
 - 1.1.3 Flammable gas measuring instrument.
 - 1.1.4 Metalliferous mine
 - 1.1.5 Ventilation district. (5)
- 1.2 The Mine Health and Safety Act, 29 of 1996 calls for tripartite alliance in managing health and safety at the mine. To do that the employer and employee must have a governing document, what must be included in the governing document? Quote the section and 10 requirements. (10)
- 1.3 During the blasting activities underground, be it primary or secondary blasting, what is the role of competent person conducting the blasting. (10)

[25]

QUESTION 2

- 2.1 The DMRE Minister may declare that an environmental condition or substance present at the mine is a health hazard to the employees who are exposed or may be exposed to that environment, list the Minister's required actions after consultation with the council. Quote the relevant section and list five actions that the Minister may take. (5)
- 2.2 List the key appointments by the employer to protect the health and safety of employees. Quote the relevant legislation. (5)
- 2.3 Emergency management should be carried out with reference to four elements of emergency management, list and describe the four elements as mentioned in the Guideline for Emergency Preparedness and Response (8)
- 2.4 List seven aspects to be considered when drafting a Code of Practice for Emergency Preparedness and Response. (7)

[25]

QUESTION 3

3.1 The Mine Health and Safety Act (MHSA) Section 4(1) appointee must ensure that a working place is made safe before employees start to work. List the MHSA regulation requirements for making an area safe. (5)

3.2 List the objectives of the MHSA 29 of 1996. (10)

3.3 Describe a management system for the prevention of explosive concentration of flammable gas under the following headings as prescribed in the Guideline for Mandatory Prevention of Flammable Gas Coal Dust Explosions in Collieries Code of Practice.

3.3.1 Ventilation.

3.3.2 Mining near or through a dyke, burnt coal, or geological discontinuities.

3.3.2 Main fans. (15)

[30]

QUESTION 4

4.1 Discuss the occupational health programme for Noise as per Guideline for Mandatory Code of Practice on Occupational Health Programme for Noise – Ref DMRE 16/3/2/4-B7 dated 11 February 2022. (10)

4.2 List five key employer responsibilities in management of fire and explosions at the mine. (5)

4.3 Define the following as per MHSA, quote the relevant section/ regulation:

4.3.1 Asbestos

4.3.2 Breathing apparatus

4.3.3 OEL-STEL

4.3.4 Secondary blasting

4.3.5 Permit to work (5)

[20]

Total Marks: [100]