

Minerals Council South Africa



EXAMINATION PAPER

SUBJECT: CHAMBER OF MINES OF SOUTH AFRICA - CERTIFICATE IN MINE ENVIRONMENTAL CONTROL PAPER 6 – THE MINE HEALTH AND SAFETY ACT REGULATIONS SUBJECT CODE: COMMEC 6 EXAMINATION DATE: 07 OCTOBER 2025 TIME: 08:30 – 10:30	EXAMINER: M Lebelo MODERATOR: B Letlape TOTAL MARKS: [100] PASS MARK: (60%)
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NUMBER OF PAGES: 3
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 .

QUESTION 1

Define the following concept and quote relevant section or regulation from the *MHSA and DMPR Guidelines*.

- 1.1 Data logging facility. (2)
- 1.2 Missing person. (2)
- 1.3 Breathing apparatus. (2)
- 1.4 Occupational exposure limit' (OEL) for Noise (2)
- 1.5 Sampling Cycle (2)
- 1.6 List the bacteriological determinants for potable water and provide the limits for each of these determinants. (6)
- 1.7. List the requirements for the Mine Ventilation and Rescue plans (9)

[25]**QUESTION 2**

Amendments to the MHSA, 1996 (act No 29 of 1996) regulations relating to rescue, first aid and emergency preparedness and response, were gazetted on 28 March 2025. Discuss the following sections as stated in the amended regulations.

- 2.1) Report to the employer relating to events that might lead to an emergency (5)
- 2.2) Issuing of Self-Contained Self- Rescuers in underground operations as well as surface operations (4)
- 2.3) The minimum number of mine rescue teams required, as determined by the maximum number of persons who could be underground at any one time (3)
- 2.4) Training of surface fire responders whilst using a breathing apparatus (3)
- 2.5) Equipping of telephone lines in underground refuge bays (2)
- 2.6) What are the occupational hygiene OELs, as amended in Chapter 22.9 Schedules of the MHSA, 1996 (Act No 29 of 1996) gazetted on 28 March 2025 for the following airborne pollutants (8)
 - 2.6.1) Carbon Monoxide (CO), TWA,8h
 - 2.6.2) Carbon Monoxide CO for donning or SCSR
 - 2.6.3) Diesel Particulate Matter (DPM)- elemental carbon
 - 2.6.4) Hydrogen Sulphide STEL.

[25]

QUESTION 3

As a section 12(1) appointee at a mine, discuss the MHSA act 29 of 1996 requirements with regards to the following.

3.1) Reporting on fires and explosions (15).

3.2) System of occupational hygiene measurements (10)

[25]

QUESTION 4

A hearing conservation program must be established and maintained for workplaces with a noise level of ≥ 85 dBA, as per *DMPR Guideline for Mandatory Code of Practice on Occupational Health Programme for Noise – Ref DMRE 16/3/2/4-B7 dated 11 February 2022*.

Discuss the noise monitoring strategy under the following sub-headings

4.1) Area noise monitoring (8)

4.2) Noise source monitoring (5)

4.3) Who must be part of a hearing conservation committee, appointed by the employer (7)

4.4) The hierarchy of controls to be applied as per the hearing conservation program (5)

[25]

Total Marks: 100