

2013/11/1320



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T930(E)(N15)T
NOVEMBER EXAMINATION

**NONNATIONAL CERTIFICATE: ENGINEERING CERTIFICATE OF
COMPETENCY**

LEGAL KNOWLEDGE: MINES

(13050026)

**15 November 2013 (X-Paper)
09:00–12:00**

CLOSED-BOOK EXAMINATION.

This question paper consists of 4 pages.

**DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA**

**NONNATIONAL CERTIFICATE: ENGINEERING CERTIFICATE OF
COMPETENCY**

LEGAL KNOWLEDGE: MINES

TIME: 3 HOURS

MARKS: 100

INSTRUCTIONS AND INFORMATION

1. NO programmable calculators are to be used.
 2. NO cellphones are allowed in the examination room.
 3. Draw a line after each question.
 4. NO pencil answers will be marked.
 5. Candidates are not allowed to leave the examination room before one hour after commencement of the examination.
 6. Candidates must be in the examination room 15 minute before the examination starts.
 7. NO text books are allowed on the desks.
 8. Candidates without acceptance by the Commission of Examiners will be disqualified.
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QUESTION 1: MINE HEALTH AND SAFETY ACT

What requirements must the employer put in place to ensure an adequate supply of health and safety equipment?

Name at least 10 points.

[10]

QUESTION 2: MINE HEALTH AND SAFETY ACT

What steps must the employer take to assess and respond to risk?

Name at least 10 points.

[10]

QUESTION 3: DEFINITIONS

Define the following in terms of the Mine Health and Safety Act:

- 3.1 Biological monitoring (5)
- 3.2 Manager (1)
- 3.3 Health and Safety Standard (4)
- [10]

QUESTION 4: MINE HEALTH AND SAFETY ACT REGULATIONS

What is the procedure in the regulations for the election of health and safety representatives?

[10]

QUESTION 5: MINE HEALTH AND SAFETY ACT REGULATIONS

Name 10 dangerous occurrences with regard to winding plants which must be reported.

[10]

QUESTION 6: ENGINEERS

The mine requires the appointment of a certified engineer.

What are the requirements when work may continue without the certified engineer?

[10]

QUESTION 7: MINERALS ACT REGULATIONS

When is it required to install ladderways?

[10]

QUESTION 8: MINERALS ACT REGULATIONS

Explain the inspections that have to be done by mine personnel on the elevators at the mine. [10]

QUESTION 9: MINERALS ACT REGULATIONS

9.1 What are the requirements for any accessible metallic portion of an electric plant or apparatus which does not normally form part of the electric circuit? (3)

9.2 What provisions shall apply to any electrical installation used in a hazardous area? (7)
[10]

QUESTION 10: MINERALS ACT REGULATIONS

The mine uses a boiler in the plant.

State the requirements for safety valves on the boiler. [10]

TOTAL: 100