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# higher education & training

Department:  
Higher Education and Training  
**REPUBLIC OF SOUTH AFRICA**

T 10(E)(J13)T  
JUNE EXAMINATION

NATIONAL CERTIFICATE

**LEGAL KNOWLEDGE: MINES AND WORKS**

(13050026)

13 June 2014 (X-Paper)  
09:00–12:00

Programmable calculators may not be used.

CLOSED-BOOK EXAMINATION

This question paper consists of 4 pages.



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

**NATIONAL CERTIFICATE  
LEGAL KNOWLEDGE: MINES AND WORKS**

**TIME: 3 HOURS**

**MARKS: 100**

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**INSTRUCTIONS AND INFORMATION**

1. Answer ALL the questions.
  2. Read ALL the questions carefully.
  3. Number the answers according to the numbering system used in this question paper.
  4. Rule off across the page after completion of EACH question.
  5. No pencil answers will be marked.
  6. Candidates without acceptance by the Commission of Examiners will be disqualified.
  7. Write neatly and legibly.
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**QUESTION 1**

What are the powers of a person presiding at an inquiry? [10]

**QUESTION 2**

When is the employer liable to a fine in terms of section 55B of the Mine Health and Safety Act, 1996? [10]

**QUESTION 3**

- 3.1 The employer has certain responsibilities.  
What must every main fan be provided with? (4)
- 3.2 What written procedures must be prepared by the employer with regard to drawing points, tipping points, rock passes and box fronts? (6)
- [10]

**QUESTION 4**

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

- Braking system (3)
  - Dynamic type test (3)
  - Locomotives (2)
  - Rolling stock (2)
- [10]

**QUESTION 5**

What is the definition of a pressure vessel in terms of the Minerals Act regulations? [10]

**QUESTION 6**

State the responsibilities of an engineer. [10]

**QUESTION 7**

What are the requirements for a device that is installed to prevent inadvertent access of vehicles to the shaft? [10]

**QUESTION 8**

State the safety requirements for an elevator's car door.

**[10]****QUESTION 9**

9.1 When must an electrical cable be protected by armouring? (5)

9.2 What safety precautions need to be taken where there is a ring feed or the possibility of electrical feedback exists? (2)

9.3 What is the minimum clearance for an object to be brought close to live power lines in respect of the following voltages:

- Up to 250 kV
- 250 kV to 400 kV
- Above 400 kV

(3 x 1)

(3)  
**[10]****QUESTION 10**

The guideline for the Compilation of a Mandatory Code of Practice for Underground Rail bound Transport Equipment requires certain aspects to be considered when designing underground haulages where rail bound equipment is used.

List TEN of these

**[10]****TOTAL: 100**

