higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

ENGINEERING FUNDAMENTALS
NQF LEVEL 2

14 November 2022

This marking guideline consists of 5 pages.

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QUESTION 1

1.1 The benefits of the Skills Development Act – Employees are more productive,✓ and business are more successful.✓ Employees gain work experience✓ while they develop skills that are useful in the workplace,✓ this ensures the quality of their work life improves.✓ (5)

1.2
- Ore extraction
- Construction materials
- Lumber wood
- Primary plastics and Primary rubber
- Textiles (5)

1.3
- Throwing things
- Practical jokes
- Fooling around
- Pushing
- Shouting (5)

1.4
- It is important for you to do your work properly✓ and clearly see what you are doing.✓
- Also to prevent accidents✓ from happening✓ (2 × 2) (4)

1.5 A verbal warning is a warning given via spoken word and not given in writing. (1)

1.6
1.6.1 D
1.6.2 E
1.6.3 F
1.6.4 G
1.6.5 A
1.6.6 H
1.6.7 I
1.6.8 B
1.6.9 J
1.6.10 C

(10 × 1) (10)

1.7
1.7.1 Responsibility
1.7.2 Designated group
1.7.3 Field
1.7.4 Manufacturing
1.7.5 Extraction
1.7.6 Accidents
1.7.7 Wooden duckboard
1.7.8 Ventilation
1.7.9 Poor housekeeping Or unsafe act
1.7.10 Noise

(10 × 1) (10)
[40]

QUESTION 2

2.1
- Make sure your overall is not too long because you could step on it,✓ trip and fall, and injure yourself✓
- The overall must not have any loose buttons✓ that could get caught in a machine✓
- Overalls should not be torn or have any holes in the pockets,✓ as sharp objects can cut and injure you.✓
- Overalls must always be clean✓ as any oil on the overall can catch fire.✓

(4 × 2) (8)

2.2
2.2.1	True
2.2.2	True
2.2.3	False
2.2.4	False
2.2.5	False
2.2.6	True

(6 × 1) (6)

2.3
2.3.1	E
2.3.2	D
2.3.3	F
2.3.4	C
2.3.5	A
2.3.6	B

(6 × 1) (6)

2.4
2.4.1	Warning of moving machinery hazards
2.4.2	Warning of carbon dioxide
2.4.3	First aid sign
2.4.4	Emergency telephone
2.4.5	Keep the area clean
2.4.6	Safety shower
2.4.7	Eye wash
2.4.8	Dust mask must be worn
2.4.9	Head protection shall be worn
2.4.10	Air supplied hood shall be worn

(10 × 1) (10)

[30]

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QUESTION 3

3.1	3.1.1	Smother – putting out a fire by preventing air from reaching it.		
	3.1.2	Extinguisher – Something that makes a fire or light stop burning.	(2 × 2)	(4)
3.2	3.2.1	Carbon dioxide		
	3.2.2	Rubber tubing		
	3.2.3	Spills	(3 × 1)	(3)
3.3	3.3.1	D		
	3.3.2	E		
	3.3.3	A	(3 × 1)	(3)
				[10]

QUESTION 4

4.1	A physical condition that makes it difficult for someone to use their body properly.		(2)
4.2	We call it a Scene.		(1)
4.3	The events that led up to the injury.		(2)
4.4	4.4.1	Numbness – having no feeling or sensation	
	4.4.2	Nauseous – feeling as if you are going to vomit	(2 × 1) (2)
			[7]

QUESTION 5

5.1	5.1.1	Incidents		
	5.1.2	At risk	(2 × 1)	(2)

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5.2 5.2.1 True
5.2.2 True
5.2.3 True
5.2.4 False
5.2.5 True

(5 × 1) (5)

5.3
- Occupational hygiene
- Occupational medicines
- Biological monitoring

(3 × 1) (3)

5.4
- If any equipment, machine or device being used or operating is likely to endanger the operator or any other worker.
- The condition of the workplace is likely to endanger the workers.
- If any equipment or machine is in contravention of regulations or violates the Act.

(3)

(3 × 1) **[13]**

TOTAL: 100