higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

WORKSHOP PRACTICE
NQF LEVEL 2

15 November 2022

This marking guideline consists of 5 pages.

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QUESTION 1

1.1
1.1.1 C
1.1.2 E
1.1.3 A
1.1.4 B
1.1.5 D

(5 × 1) (5)

1.2
- The base should be level and capable of carrying the weight of the stack.
- The height of the stack must not be more than three times the width of the base on its narrowest side.
- All stacks must be interlocked and bonded.
- Stacks should not obstruct exit routes, doors, signs or ventilation.
- The goods or materials of each layer must be uniform in size, shape and mass.
- Pallets must be in good condition.
- Remove articles from the top first.
- Do not climb on stack ladders.
- Loads stacked on trucks must be secured, covered, and tied down.
- Sufficient space must be allowed between stacks for fire-fighting access.

(Any 5 × 2) (10)

1.3
- Physical
- Biological
- Chemical
- Electrical
- Fire
- Falling

(Any 5 × 1) (5)
[20]

QUESTION 2

2.1
2.1.1 D
2.1.2 C
2.1.3 A
2.1.4 B
2.1.5 B

(5 × 1) (5)

2.2
2.2.1 Fracture
2.2.2 Fragments
2.2.3 Open fracture
2.2.4 Green stick fracture
2.2.5 Oblique fracture

(5 × 1) (5)

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2.3 2.3.1 Artificial respiration
2.3.2 Cardiopulmonary resuscitation
2.3.3 Occupational Health and Safety Act

(3 × 1) (3)

2.4 An occurrence, condition, or situation arising in the course of work that resulted in or could have resulted in injuries, illnesses, and damage to health, or fatalities. (2)

[15]

QUESTION 3

3.1
- Screwdrivers✓ – loosen and tighten screws✓
- Pliers✓ – gripping, holding, cutting, or stripping wire✓
- Wire strippers✓ – removing insulation from an insulated wire✓
- Draw tape/fish tape✓ – route wiring through walls and electrical conduit✓
- Bending springs✓ – bend PVC conduit✓
- Ladder – climbing to higher heights
- Measuring tape – taking measurements (Any 5 × 2) (10)

3.2 The head of the hammer may fly off✓ and cause injuries or damage.✓ (2)

3.3
- Bent handles
- Rounded jaws
- Rust on the hinges (3)

[15]

QUESTION 4

4.1 A bench grinder (1)

4.2
- Screwdrivers
- Chisels
- Drill bits
- Punches (4)

4.3 A – Electrical motor ✓– rotates the wheels✓
B – Wheel safety cover✓ – protects the operator from sparks✓
C – On/Off switch ✓– turns the machine on and off ✓
D – Machine base ✓– supports the machine✓
E – Grinding wheel ✓– does the actual job/sharpening✓ (5 × 2) (10)

[15]

QUESTION 5

5.1 Retractable measuring tape (1)

5.2 Laser measuring tape (1)

5.3 Engineer's squares (1)

5.4 Vernier calliper (1)

5.5 Measuring tape (1)

5.6
- Follow all the instructions that are supplied with the laser measuring tape✓ to ensure a safe and secure working environment.✓
- Do not cause the danger sign on the tape to be unreadable.✓
- Do not direct the laser beam at people or animals.✓
- Do not look directly into the laser beam✓ as it can cause injury to eyes.✓
- Do not use laser viewing glasses as protective glasses.✓ Laser viewing glasses serve for better recognition of the laser beam and not to protect against laser radiation.✓
- Do not allow children to use the laser-measuring instrument without supervision.✓ They could unintentionally blind themselves or other people.✓ (Any 5 × 2) (10)

[15]

QUESTION 6

6.1
6.1.1 True
6.1.2 True
6.1.3 False
6.1.4 False
6.1.5 True

(5 × 1) (5)

6.2
- Simple pulley system
- Two-pulley system
- Weston's differential blocks/Chain blocks (3)

6.3
- Chain slings
- Wire rope slings (2)

[10]

QUESTION 7

- Ensure that the work surface is clean and there is sufficient light.✓
- Ensure that the work area is well ventilated.✓
- Ensure a good clean surface on the strip board to ensure a strong and low resistance joint that is free of impurities and that conducts electricity well.✓
- Clean all surfaces to be soldered with a suitable solvent or a fine wire brush.✓
- Clean the component lead because it may have built up glue from packaging.✓
- Place the components on the board after they have been cleaned.✓
- Cut off excess length of the inserted leads.✓
- Apply a small amount of solder to the tip of the iron.✓
- Place the iron tip so that it rests against both the component lead✓ and the board to heat up the components with enough solder.✓ **[10]**

TOTAL: 100

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