higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

WORKSHOP PRACTICE
NQF LEVEL 2

24 November 2023

This marking guideline consists of 5 pages.

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QUESTION 1

1.1
1.1.1 False
1.1.2 False
1.1.3 True
1.1.4 True
1.1.5 True
1.1.6 False

(6 × 1) (6)

1.2
- Employees must take reasonable care for the health and safety of everyone✓ who may be affected by his acts.✓
- Co-operate with any employer✓ regarding any duty or requirements imposed on the employer by the act.✓
- Carry out any lawful order given to him/her✓, and obey the health and safety rules and procedures laid down by the employer.✓
- Report any situation that is unsafe or unhealthy✓ to his employer or safety representative.✓
- Report any incident he is involved in✓ which may affect his health or has caused an injury to the employer.✓ (5 × 2) (10)

1.3
- Electrocution
- Electric shock
- Burns
- Falls (4)

[20]

QUESTION 2

2.1
2.1.1 B
2.1.2 C
2.1.3 A
2.1.4 F
2.1.5 D

(5 × 1) (5)

2.2 2.2.1
- Lay the person on his/her back with the head flat on the floor.
- Raise and support the feet and legs about 30 cm off the ground or surface, so that the head is lower than the feet.
- Keep the person warm.
- Loosen tight clothing around neck, waist and neck.
- Monitor breathing and pulse if necessary.
- Keep the person calm
- If person is nauseous roll person on his/her side. (Any 3 × 1) (3)

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2.2.2 Immerse the burned area in cold water or apply cold compresses.✓ Do not break blisters or apply any ointment to the victim,✓ remove shreds of skin tissues or particles of charred clothing that have stuck to the skin.✓ You may also apply 'burn shield'✓ and finally apply a bandage over the burnt area.✓ (5)

2.3
- Weakness
- Nauseousness
- Frightened
- Restless
- Disorientated
- Thirsty (Any 2 × 1) (2)

[15]

QUESTION 3

3.1
3.1.1 B
3.1.2 D
3.1.3 C
3.1.4 A
3.1.5 C

(5 × 1) (5)

3.2 A cable knife is used for stripping✓ the insulation off conductors.✓
A cable knife is used to remove the PVC outer sheath/ covering✓ around the armouring of armoured cables ✓ (Any 1 × 2) (2)

3.3
- Protect your hands✓ and fingers.✓
- Pull a little of the tape at a time✓, do not pull the entire tape out.✓
- After using a draw tape, wipe it clean✓and then retract it from its cover.✓
- It is advisable to have an assistant to feed conductors into pipe on one side✓ while the other person pulls tape with conductors connected to it out on other side✓. (Any 3 × 2) (6)

3.4
- Regrind the screwdriver to sharpen it
- File the screwdriver (2)

[15]

QUESTION 4

4.1
- Hold the flat chisel against the wheel face✓ and ensure you maintain an angle of 60 degrees.✓
- Move the chisel from side to side✓ across the stone face. ✓
- Cool the tip frequently✓ by dipping it into the water.✓
- Grind the opposite side✓ and then recheck if the angle is correct at 60 degrees.✓
- Grind any mushroom ends away✓ and set the angle at 30 degrees.✓

(5 × 2) (10)

4.2
- Spindle shaft
- Flange /disc flange
- Lock nut / clamp nut (3)

4.3
- Gears
- Bearings (2)

[15]

QUESTION 5

5.1
- Do not direct the laser beam at people or animals,✓ it can cause injury to the eyes.✓
- Do not look directly into the laser beam,✓ as it could cause injury to eyes.✓
- Do not use laser viewing glasses as protective glasses,✓ glasses serve for better viewing of the laser beam and do not protect against laser radiation.✓
- Do not allow children to use the laser measuring instrument without supervision✓ They could unintentionally blind themselves and other people.✓
- Make sure the danger sign on the measuring tape is readable✓ it should always be visible to everyone.✓ (5 × 2) (10)

5.2
- Handle a spirit level carefully
- Clean it before and after use
- Hang it on a tool board after use
- Do not drop it
- Do not use it as a lever or scraper
- Store it separately in a dry place to avoid oxidation
- Wipe with an oiled cloth
- Don’t put the spirit level in a position that it can be bend
- Store on a shelf where nothing can be put on top of it (Any 5 × 1) (5)

[15]

QUESTION 6

6.1
- To provide direction
- To minimise waste
- To set standards to facilitate control
- To identify and commit resources to achieve goals
- To decide which tasks must be done to achieve these goals (5)

6.2 Ensure safety procedures are implemented before the commencement of work.✓ Identify and control the risks arising from such work.✓ Take ownership of completed work and make work areas safe.✓ (3)

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6.3
- Dry chemical extinguisher
- Water extinguishers
- Carbon dioxide extinguishers
- Foam extinguishers (Any 2 × 1) (2)

[10]

QUESTION 7

7.1 Solvents are used to clean and remove grease/oil, dirt or fingerprints✓ from the surfaces to be soldered.✓ (2)

7.2 Cold solder joint (1)

7.3
- The temperature of the soldering iron is to high
- Not cleaning the tip of the soldering iron properly
- Highly corrosive flux (3)

7.4
- Solder
- Electrical wire
- Wire stripper
- Cable Knife
- Emery paper
- Side cutter (Any 4 × 1) (4)

[10]

TOTAL: 100