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higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

WOODWORKERS' THEORY N1

13 April 2021

This marking guideline consists of 5 pages.

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QUESTION 1

1.1 1.1.1 Plumber
1.1.2 Carpenter
1.1.3 Painter
1.1.4 Bricklayer
1.1.5 Roofer

(5 × 1) (5)

1.2
- Management
- Materials
- Construction techniques
- Regulations
- Labour
- Equipment (6)

1.3 A multistorey building has multiple floors above the ground in the building.✓ It increases the floor area of the building without increasing the area of the land the building is built on.✓ It also saves land and,✓ in most cases, money (depending on the material used and land prices in the area).✓ (4)

[15]

QUESTION 2

2.1 2.1.1 National Occupational Safety Association
2.1.2 Safe working load
2.1.3 Compensation for Occupational Injuries and Diseases Act
2.1.4 Occupational Health and Safety Act
2.1.5 Personal Protective Equipment

(5 × 1) (5)

2.2 An accident is an unplanned event that causes harm to people, property or both.✓ An incident is an undesired event that may cause personal harm or other damage.✓ (2)

2.3
- Lack of experience, training and familiarity with the job.
- Risk of how back disorders increase with age and the number of years at work.
- Physical dimensions and capacity such as height, weight and strength.
- Prior history of back disorders. (4)

2.4 Machine safeguarding is the application of safety,✓ engineering, work practices and administrative controls to prevent the injury of employees who operate machines✓✓ or are in the vicinity of machine operations.✓ (4)

[15]

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QUESTION 3

3.1
- Fungal infection
- Termites
- Borer beetles
- Mechanical failure
- Fire (Any 4 × 1) (4)

3.2
- It is ductile metal which means that it can easily be shaped into pipes and drawn into wires.
- It can be joined easily by soldering or brazing which makes it useful for pipework and for making sealed copper vessels.
- Copper pipes are lightweight because they can have thin walls. They do not corrode and they can be bent to fit around corners.
- The pipes can be joined by soldering and are safe in fires because they do not burn or support combustion.
- Copper is non-magnetic, non-sparking and non-bacterial and because it is low in the reactivity series, it is slow to corrode.
- With medium strength and high fatigue resistance, copper and alloys are primary metals for electrical applications. (Any 4 × 1) (4)

3.3
- Fibre board
- Laminated board
- Chipboard
- Plywood
- Hardboard
- Medium-density fibre board (Any 5 × 1) (5)

3.4
- Window frames
- Blinds
- Doors and doorframes
- Roof covers
- Wall panel partitions (Any 4 × 1) (4)

3.5 3.5.1
- Plumbing pipes
- Guttering
- Shower curtains
- Window frames
- Flooring (Any ONE)

3.5.2 Plastic pressure pipe system

3.5.3
- Compact discs
- Eye glasses
- Security windows
- Traffic lights (Any ONE)

(3 × 1) (3)
[20]

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QUESTION 4

4.1
4.1.1 True
4.1.2 True
4.1.3 True
4.1.4 False
4.1.5 True

(5 × 1) (5)

4.2
- Compass saw
- Keyhole saw
- Bow saw
- Coping saw

(Any 3 × 1) (3)

4.3
- Drilling of holes in both metal and wood.
- Turning in of screws.
- Sandpapering of surface.
- Buffing.
- Hammer drilling of holes in walls and floors. (5)

4.4
4.4.1 Used for boring large holes in wood and for driving and removing screws.

4.4.2 Used for drilling small holes and countersinking.

(2 × 1) (2)
[15]

QUESTION 5

5.1
5.1.1 Lamello biscuit
5.1.2 Roof truss hanger
5.1.3 Flat nut
5.1.4 Plain washer
5.1.5 Wing nut
5.1.6 Wall plug
5.1.7 Clout nail
5.1.8 Roofing screw
5.1.9 Drywall screw

(9 × 1) (9)

5.2
- Nailing and stapling guns
- Grinders
- Drills
- Jack hammers
- Chipping hammers
- Riveting guns
- Sanders

(Any 6 × 1) (6)
[15]

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QUESTION 6

6.1 A
6.2 B
6.3 C
6.4 D
6.5 E
6.6 H
6.7 J
6.8 F
6.9 L
6.10 K

(10 × 1) **[10]**

QUESTION 7

7.1 40% of R7 000 = R7 000✓ × 0,40✓

= R2 800✓ (3)

7.2 50% of R7 000 = R7 000✓ × 0,50✓

= R3 500✓ (3)

7.3 Profit = R7 000 – (R2 800 + R3 500)✓

= R7 000✓ – R6 300

= R700✓ (4)
[10]

TOTAL: 100

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