higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

WOODWORKERS' THEORY N1

29 November 2023

This marking guideline consists of 6 pages.

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QUESTION 1

1.1
1.1.1 True
1.1.2 True
1.1.3 False
1.1.4 False
1.1.5 True
1.1.6 False
1.1.7 True
1.1.8 True
1.1.9 True
1.1.10 False

(10 × 1) (10)

1.2 The process of getting more out of what you have put in is doing better with what you have. (2)

1.3
- Organise conferences.
- Advertise their particular expertise.
- Educate artisans in their industry. (Any 3 × 1) (3)

[15]

QUESTION 2

2.1 A unplanned, uncontrolled event that results in injury to persons and damage to plant, equipment or the environment. (2)

2.2
- It cuts down the time spent looking for goods or tools.
- Space is saved when everything is stacked away tidily.
- Injuries are prevented if gangways and work areas are kept free of unnecessary materials.
- Fire hazards can be reduced by storing explosive material in the appropriate containers. (4)

2.3
- Gloves✓ – hand protection✓
- Safety glasses✓ – eye protection✓
- Muff✓ – hearing protection✓
- Safety shoes✓ – foot protection✓
- Clip-on ropes✓ – safety harness✓
- Mask✓ – respiratory protection✓ (Any 2 × 2) (4)

2.4
- Check that appliances are not damaged.
- Ensure that there are no loose connections and cables are not damaged.
- Check that leads are not trailing.
- Ensure that there is no possibility of nearby spills of liquids.
- Check if the appropriate fuse rating is used.
- Ensure that equipment, particularly portable equipment, is regularly checked. (Any 5 × 1) (5)

[15]

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QUESTION 3

3.1 3.1.1
- The pith is the central part of a tree trunk and serves to store food in a young tree.
- It is usually darker in colour and frequently rots.
- The pith is the primary growth and is formed when the woody stem or branch elongates. (3)

3.1.2
- The outer part of a tree that has formed recently.
- It is usually light in colour and contains living cells.
- The sapwood conveys water and mineral salts from the roots to the leaves. (3)

3.1.3
- Consists of the outer and inner bark.
- The outer bark is the dead, corky part that varies in thickness and protects the tree.
- The inner bark carries the food produced in the leaves down to the branches, trunk and roots. (3)

3.2
- Construction materials
- Heating
- Humidification
- Air circulation (4)

3.3
- Flooring
- Decking
- Cladding
- Panelling partition
- Shelving
- Furniture
- Cabinet construction (Any 3 × 1) (3)

3.4 It is caused by sudden changes in weather conditions.
It occurs when timber is seasoned too quickly or left exposed to the sun for long periods. (2)

3.5
- Melamine formaldehyde (MF)
- Phenolic (PF) or Phenol formaldehydes
- Polytetrafluoroethylene (PTFE)
- Urea-formaldehyde (UF)
- Plastic thermal insulation panels
- Plastic heating, water and sewage pipes (Any 2 × 1) (2)

[20]

QUESTION 4

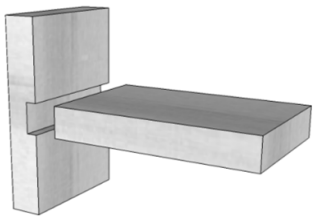
4.1	4.1.1	Cutting plier		
	4.1.2	Cold chisel		
	4.1.3	Combination square		
	4.1.4	Rubber mallet		
	4.1.5	Bradawl		
	4.1.6	Jig saw		
	4.1.7	Sash clamp		
	4.1.8	Drilling machine		
	4.1.9	Star screwdriver		
	4.1.10	Spoke shave		
			(10 × 1)	(10)
4.2	4.2.1	A marking gauge, which consists of a beam head and point.✓ It is used to mark single lines parallel to a given edge when the width and thickness of a piece of wood are marked.✓		(2)
	4.2.2	A mortice gauge, which is used for the double lines required when setting out mortice and tenon joints.✓ It has two sharp, round pins. One is adjustable and can be set to suit the particular mortice chisel in use.✓✓		(3)
				[15]

QUESTION 5

5.1	5.1.1	Panel pin		
	5.1.2	Wall plug		
	5.1.3	Mirror screw		
	5.1.4	Strap hinge		
	5.1.5	Night latch		
			(5 × 1)	(5)
5.2	• Metal plate • Nail plate • Glass plate • Truss plate		(Any 2 × 1)	(2)
5.3	• No preparation necessary. • No heating required. • Quick setting. • Clean to use. • Does not stain wood.			(5)
5.4	• Thumb latches • Ring latches • Lever latches • Automatic gate latches		(Any 3 × 1)	(3)
				[15]

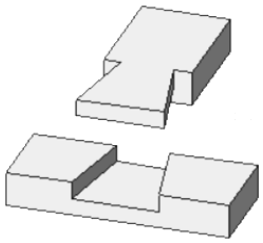
QUESTION 6

6.1.1



MARK ALLOCATION	
Drawing of the joint	2
Correct interpretation	1
Neatness	1
TOTAL	**4**

6.1.2



MARK ALLOCATION	
Drawing of the joint	2
Correct interpretation	1
Neatness	1
TOTAL	**4**

(4 × 2) (8)

6.2
- But or rubber joint
- Tongue-and-groove joint
- Dowelled joint
- Loose tongue

(Any 2 × 1) (2)

[10]

QUESTION 7

7.1	R128,80
7.2	R1 503,48
7.3	R1 633,60
7.4	R2 080,80
7.5	R451,80
7.6	R818,10
7.7	R2 553,58
7.8	R2 454,40
7.9	R3 115,95
7.10	R1 048,78

(10 × 1) **[10]**

TOTAL: 100

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