higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

AUGUST EXAMINATION

CARPENTRY AND ROOFING THEORY N2

22 JULY 2014

This marking guideline consists of 8 pages.

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QUESTION 1

1.1 1.1.1 For measuring lengths.

1.1.2 For determining lengths especially in woodwork.

1.1.3 To test if structures are in line, e.g. on the same horizontal and vertical level.

1.1.4 To determine levels of two points, which cannot be measured on the same height.

1.1.5 Used in conjunction with a spirit level on a horizontal level to see if two points are level.

1.1.6 To check if structures are vertical level.

1.1.7 An instrument on a tripot use to determine whether a structure is horizontal or vertical straight.

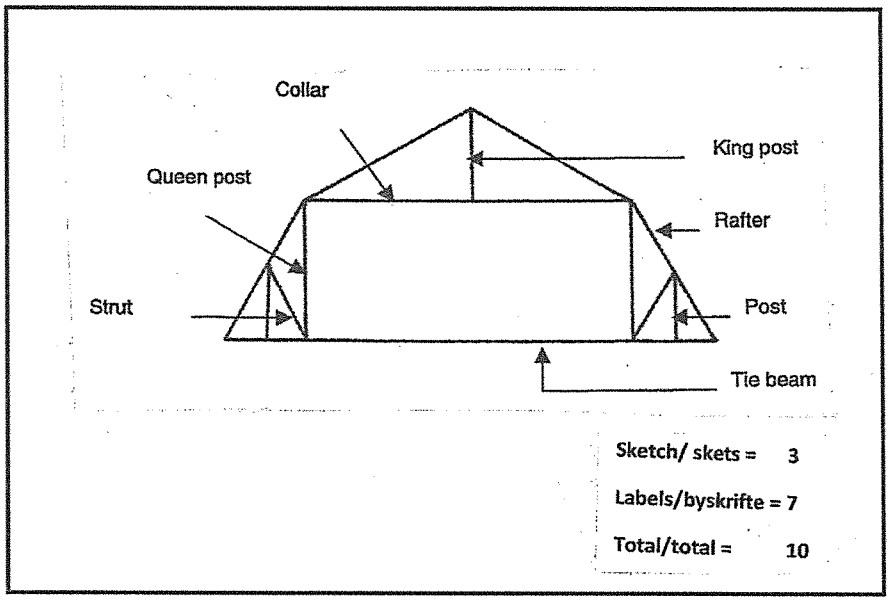
(7 x 1) (7)

1.2 A builder's square
3 : 4 : 5 method
Optical square

(3)
[10]

QUESTION 2

2.1



(11)

ATTIC ROOF TRUSS

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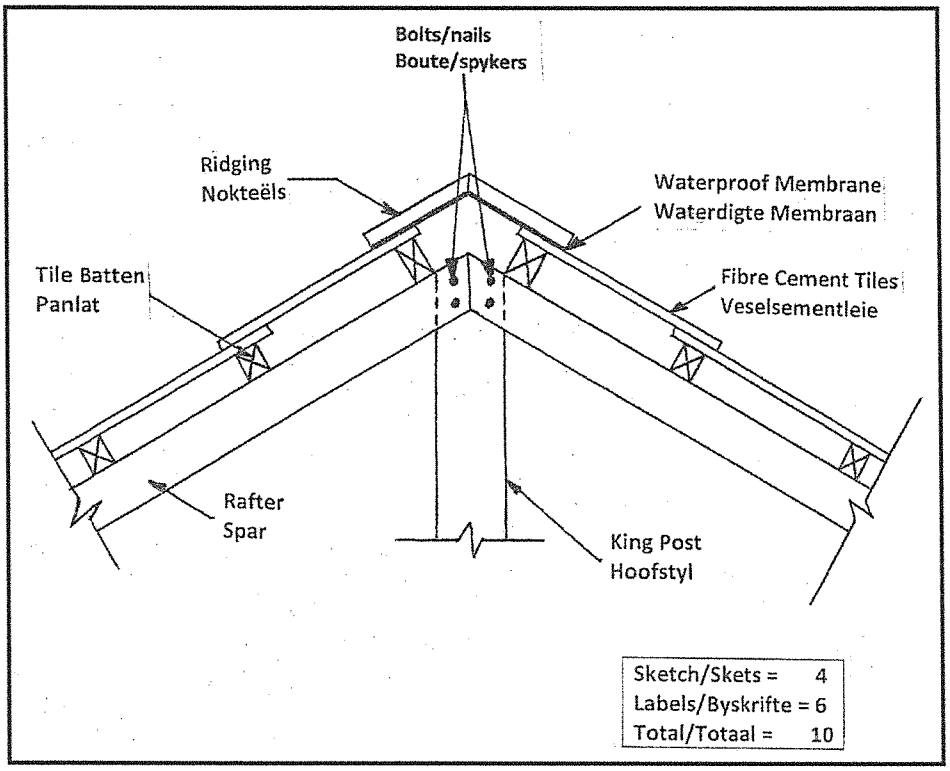
2.2 2.2.1 An open eave is not closed between the fascia and the wall. The external skin of the wall is extended to the roof covering and this is known as beam filling. (2)

2.2.2 A closed eave is covered horizontally between the wall and fascia and has no beam filling. (2)

2.3 Blade
Tongue
Heel
Face
Back (5)
[20]

QUESTION 3

3.1



(10)

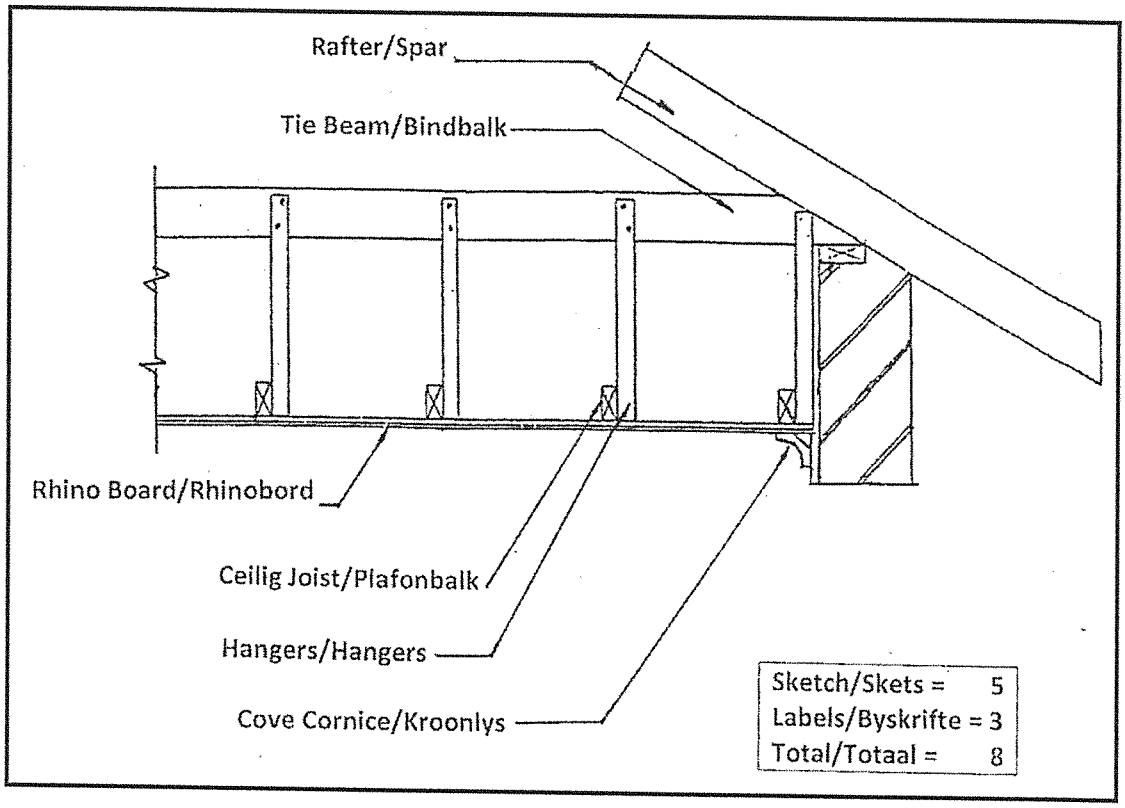
APEX OF HOWE ROOF TRUSS

3.2 It must be protected against hail and other weather conditions.
It should be stored under cover or placed in an area that is free from moisture and debris.
It must be stacked off the ground on pallets or on an even platform.
It should be stacked not higher than 1metre.
It should be stored/stacked close to the working place as possible and be accessible. (5)
[15]

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QUESTION 4

4.1



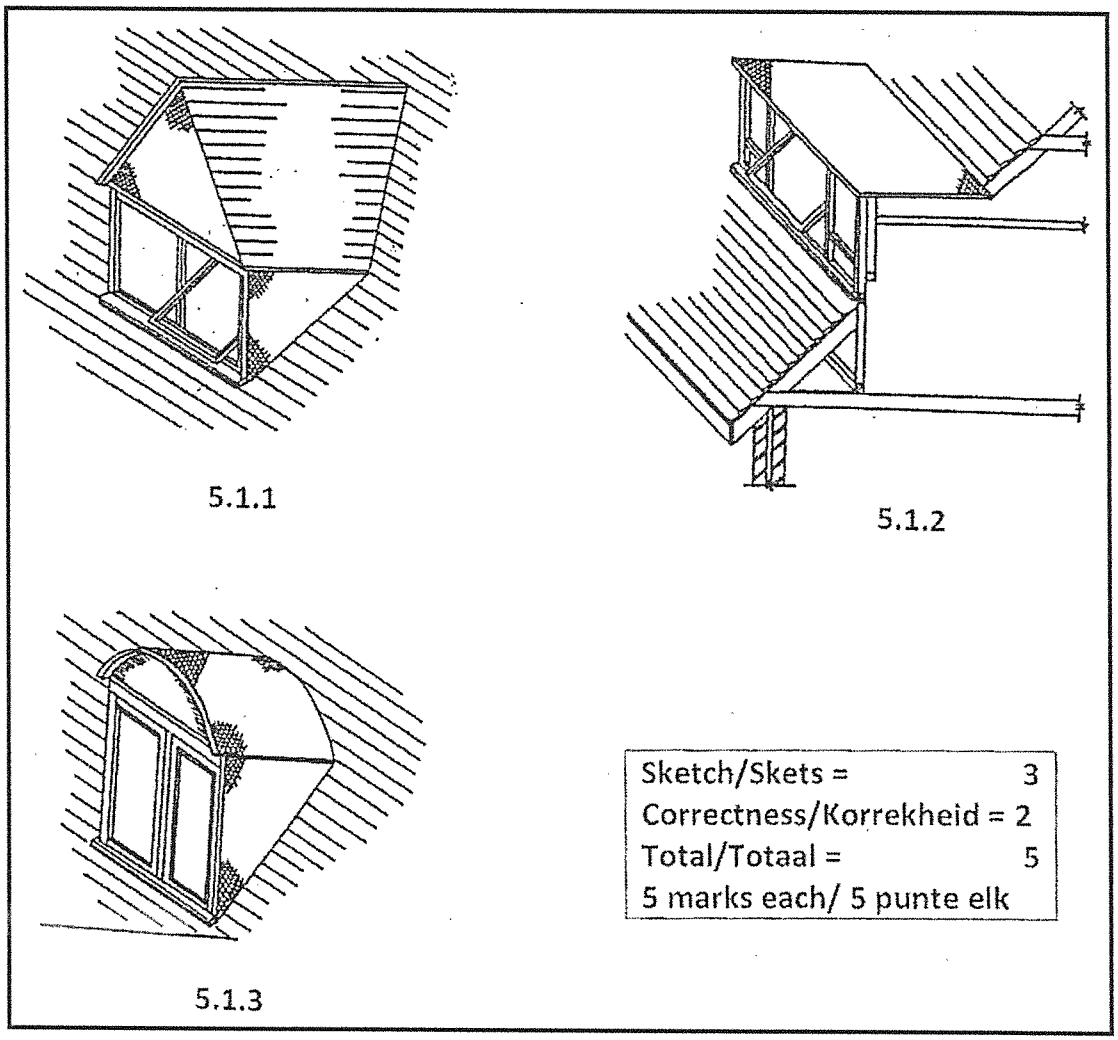
[8]

CROSS-SECTIONAL DRAWING THROUGH SUSPENDED CEILING

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QUESTION 5

5.1



[15]

DORMER WINDOWS

QUESTION 6: ROOF LIGHT CONSTRUCTION

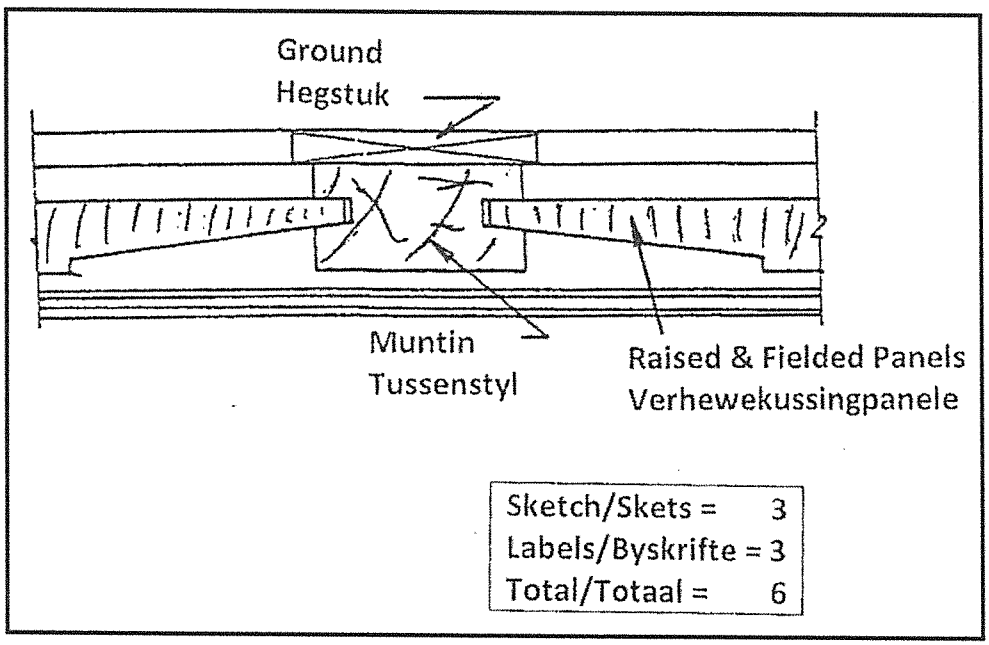
6.1 Top rail
6.2 Bottom rail
6.3 Stile
6.4 Gutter
6.5 Hinge
6.6 Rafter (spar)
6.7 Trimmer
6.8 Liners
6.9 Glazing Bar
6.10 Flushing
6.11 Rain drip
6.12 Roof tiles

(12 × 1) **[12]**

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QUESTION 7

7.1



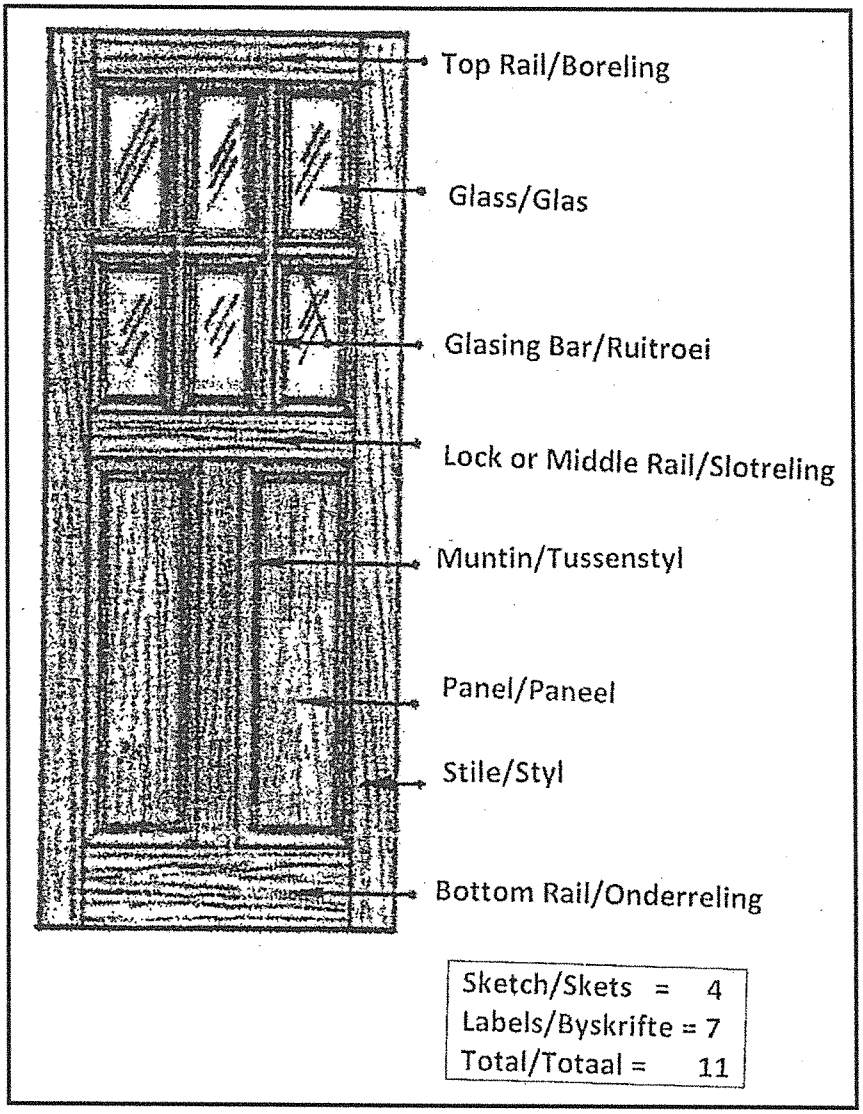
Sketch/Skets =	3
Labels/Byskrifte =	3
Total/Totaal =	6

(6)

CROSS-SECTIONAL VIEW THROUGH MUNTIN

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7.2



(11)

HALF-GLAS PANELLED DOOR

7.3 Shoring is the temporarily support to structures which is defective and likely to collapse when alterations are being made to buildings. (3)

[20]

QUESTION 8

8.1 8.1.1
Solder
Braze
Rivets
Grooved joint (Any two)

8.1.2
Solder
Rolls
Grooved joint (Any two)

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	8.1.3	Solder Braze Rivets Grooved joint Weld	(Any two)	
	8.1.4	Rivets Grooved joint Rolls	(Any two)	
	8.1.5	Welded Soldered Riveted Grooved jointed	(Any two) (5 x 2)	(10)
8.2	8.2.1	Drills easily Cuts easily		
	8.2.2	Drills and cuts easily Light and easy to install No painting required	(Any two)	
	8.2.3	Drills and cuts easily Obtainable in big sizes Can easily be shaped	(Any two)	
	8.2.4	Rust resistant Light and easy to work with Drills and cuts easily	(Any two) (4 x 2)	(8)
8.3	8.3.1	A valley gutter is used where two sloping roofs meet.		
	8.3.2	A parapet or box gutter is used where a roof abuts against a wall.	(2 x 1)	(2)
				[20]
			TOTAL:	**100**

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