higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N4

14 AUGUST 2019

This marking guideline consists of 8 pages.

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SECTION A

QUESTION 1

			1.1.1				1.3.1
							11,060 ÷ 1,200 = 9,217
2			220 mm thk. bk. wl in gable ends a.b. ✓				19 + 1 = 10 No. ✓
2	5,50						
0,5	0,20	✓					(1)
	5,50		Rectangle				1.3.2
	1,66	✓	Triangle (3)				All in 10 No. nailed full trusses
			1.1.2				
2		✓		10			38 x 114 mm S.S.A.P.
	11,06		110 mm thk. bk. wl. in	2			tbr. n.e. 2,4 m long. ✓
	0,19		bm. filling. ✓	10	1,86	✓	
				2			- Strut
			11,500 – 2/0,220		1,66	✓	
			= 11,060 m				- Post
			(2)				
			1.1.3	10			
				2			
			E.o. ord. bks. a.b. for fcgs. ✓	10	4,20	✓	Ditto, but exce. 3,9 m n.e. 6,6 m long. ✓
2				2			
2	5,50		- Rectangle		5,50	✓	-Rafters
0,5	0,20	✓					
	5,50						-Tie
2	1,66	✓	- Triangle				
	11,06						
	0,19	✓	- Bm. fill (4)				(6)
			1.2.1	2			1.3.3
				4			
2					11,90	✓	50 x 76 mm S.S.A.P.
	11,06		38 x 114 mm tbr. w.p. ✓				tbr purlins. ✓
		✓					
			(2)				11,500 + 2/0,200 = 11,900 m
							(2)
			1.2.2				1.3.4
2							
	11,06		Treat tbr. w.p. w. carb. oil.✓	2			
	0,30	✓			11,90		38 x 200 tbr. fascia brd. ✓
			2/114 + 2/38 = 0,304 m				
			(2)				(1)
			(1)				(2)

			Roof covering				
			1.4.1				
2							
	11,90	✓					
	4,20	✓	F. c. roof shtg. fixed on tbr. purlins. ✓				
			(3)				
			1.4.2				
	11,90	✓	F.c. ridge capping. ✓				
			Extra for f.c. ridge s. e. ✓				
	2	✓					
			(4)				

[30]

QUESTION 2.1

			Roof covering				
			1.4.1				
2							
✓	11,90	✓					
	4,20	✓	F. c. roof shtg. fixed on tbr. purlins.				
	99,96		✓ ✓				
			1.4.2				
			F.c. ridge capping.				
	11,90						
	11,90						
			(3)		2	2	Extra for f.c. ridge s. e.
							(4)

(½ × 5) (2½)

QUESTION 2.2

			✓ ROOF CONSTRUCTION					
ROOF COVERING		✓						
✓								
M²		✓						
F.c. rf. shtg. fixed on tbr. purlins								
99,96	3	✓						
✓								
100 M²		✓						
✓		✓						
M								
F.c. ridge capping								
11,90	3							
12 M								
No								
F.c. ridge s.e.								
2	4							
2 No								

(½ × 7) (3½)

QUESTION 2.3

	ROOF CONSTRUCTION ✓				
	Bill No. ✓				
	Roof covering ✓				
✓	✓	✓	✓		
1.	Fibre cement roof sheeting on timber purlins	M^2	100		
2.	Fibre cement ridge capping	M	12		
3.	Extra for fibre cement ridge stopped ends	No	2		
	Carried to summary ✓			R	

(0,5 × 8) (4)

Working up mark allocation

Squaring	0,5	
Check dimensioning. (ticks)	0,5	
Square dimensions.	0,5	
Check squaring answers. (ticks)	0,5	
Transfers to abstract.	0,5	(2,5)
Abstracting		
Section of work	0,5	
Trades	0,5	
Units	0,5	
Page referencing	0,5	
Use of columns	0,5	
Reducing	0,5	
Transfers to bill	0,5	(3,5)
Billing		
Section of work	0,5	
Bill no.	0,5	
Trade	0,5	
Item no.	0,5	
Descriptions (no abbreviations)	0,5	
Units	0,5	
Quantities	0,5	
Summary	0,5	(4)

[10]

TOTAL SECTION A: 40

SECTION B

QUESTION 3

3.1 A list drawn up that indicate the sections✓ of the work that must be measured✓

3.2 A list drawn up by the measurer of all the items✓ in a section of work to be measured✓

3.3 A list drawn up by a measurer of uncertain issues✓ to be cleared with the architect✓

3.4 A list drawn up of all the contractors✓ who are eligible or invited to submit a tender price✓

3.5 A list of all the drawings that were used✓ to prepare the bills of quantities✓

(5 × 2) **[10]**

QUESTION 4

4.1
- Check all dimensions taken from the drawings (given and scaled).
- Check all the waste calculations for correctness.
- Check all the side casts for correctness.
- Check all the dimensions inserted in the dimension columns.
- Check the squaring of the dimensions.
- Check the answers.
- Check the final answers. (Any 5 × 1) (5)

4.2
- Check the transfers from the dimension sheets to the abstract sheets.
- Check the section of work measured.
- Check the trade.
- Check the unit.
- Check the page reference.
- Check the casting up.
- Check the reduction. (Any 5 × 1) (5)

[10]

QUESTION 5

5.1
5.1.1 As usual
5.1.2 Exceeding
5.1.3 Rainwater pipe
5.1.4 Damp-proof course
5.1.5 Striking off and cure

(5 × 1) (5)

5.2
- It must be measured in cubic metres.
- It must be measured as an extra over all excavations.
- It must be dumped at a prescribed place.
- The location and
- the approximate distance must be stated. (5)

[10]

QUESTION 6

6.1 Item no., description, quantity, rate, amount (5)

6.2
- Horizontal at right angles to the line of sight
- Horizontal parallel to the line of sight
- Vertical (3)

6.3
- Fractional quantities must be rounded off to the nearest whole quantity.
- Quantities of a significant value may be taken to one decimal. (2)

[10]

QUESTION 7

7.1 7.1.1 Duties performed before a contractor is appointed

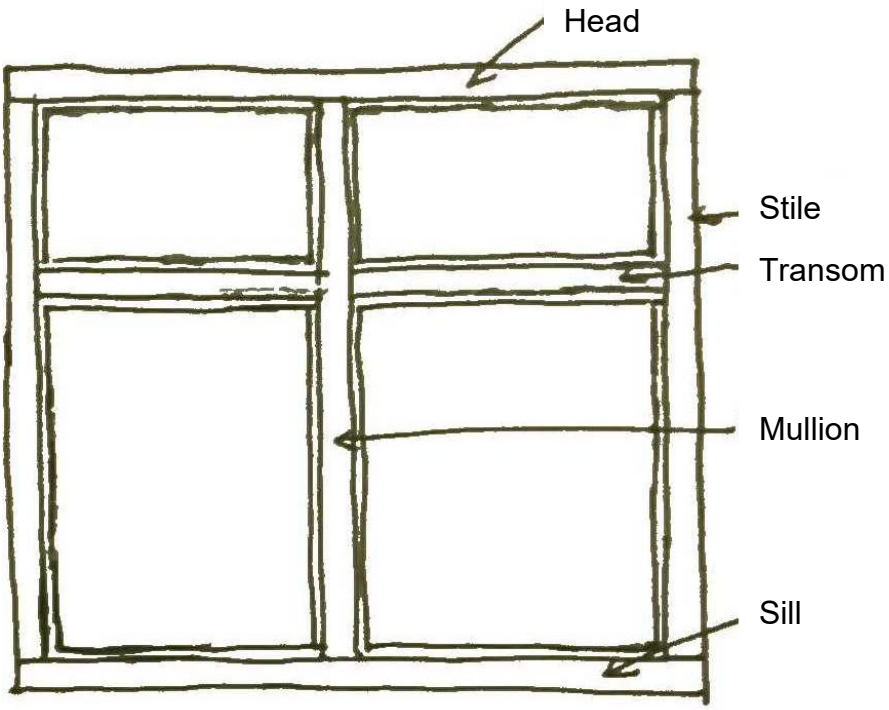
7.1.2 Duties performed after construction work commenced (2 × 2) (4)

7.2
- Prepares costing estimates and budgets
- Prepares bills of quantities
- Writes specifications
- Gives advice of new building methods and materials
- Gives advice about tender methods
- Calls for tenders (Any 3 × 1) (3)

7.3
- Checks priced bills of quantities
- Interim valuations
- Remeasures provisional quantities
- Cost variations
- Final accounts (Any 3 × 1) (3)

[10]

QUESTION 8



TIMBER WINDOW

(5 × 2) **[10]**

TOTAL SECTION B: 60
GRAND TOTAL: 100

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