higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N4

23 April 2021

This marking guideline consists of 9 pages.

Copyright reserved

SECTION A

QUESTION 1

1.1

	21,12 ✓ 2,40 ✓		220 mm Thk. Bk. wl. In ord. stk. bks. In 1:3 c.m. mix. ✓ 2/ 7,500 = 15,000 2/ 3,500 = 7,000 22,000 -4/ 0,220 0,880 21,120 m ✓				
	22,00 ✓ 2,40 ✓		E.o ord. bkwrk. For fcgs. ✓				

(7 × 1) (7)

1.2

	20,24 ✓ 2,40 ✓		19 mm Thk. Pls. to vert. bk. wl. ✓ 21,120 – 4/ 0,220 = 20,240 m ✓ & 2Cts. Pva. pt to vert. pls. wl. ✓				

(5 × 1) (5)

Copyright reserved

1.3 Adjustments for the opening.

			Ddt. ✓				
	1,90	✓	220 mm Thk. wl. a.b. ✓		Item	✓	Allow the Pprov. sum of R1 500,00 (one thousand five hundred rand) for st. rod reinf. supplied & fixed by contractor. ✓
	0,15	✓					
			Width 1,500 +2/0,200 = 1,900 m				
			&				
			Ddt.		1,50	✓	Frmwrk. to conc. lintel ✓
			E.o. ord. bkwrk. a.b. ✓		0,52	✓	2/ 0,150 + 0,220 = 0,520 m
			Ddt.				
			220 mm Thk. wl. a.b. ✓				
	1,90	✓	&				
	1,50	✓	19 mm Thk. pls. a.b. ✓				
			&				
			2Cts. Pva. Pt. To pls. intl ✓				
2	0,22	✓	Add. ✓				
	1,90	✓	19 mm thk. pls. in n.w. n.e. 30 mm wide. ✓				
			&				
			2Cts. Pva pt. In n.w. n.e. 300 mm wide but joining int.wl. pt.. ✓				
	0,22	✓	19 mm thk. pls. in n.w. n.e. 300 mm wide but to hor. conc. soffit. ✓				
	1,50	✓	&				
			2Cts. Pva. Pt. To hor. pls. soffit. ✓				

(18)
[30]

Copyright reserved

QUESTION 2

2.1 Squaring

	21,12 ✓ 2,40 ✓		220 mm Thk. Bk. wl. In ord. stk. bks. In 1:3 c.m. mix.
	✓	50,69	2/ 7,500 = 15,000 2/ 3,500 = 7,000 22,000✓ -4/ 0,220 0,880 21,120 m✓
	22,00 ✓ 2,40 ✓		E.o ord. bkwrk. For fcgs.
	✓	52,80	

(1)

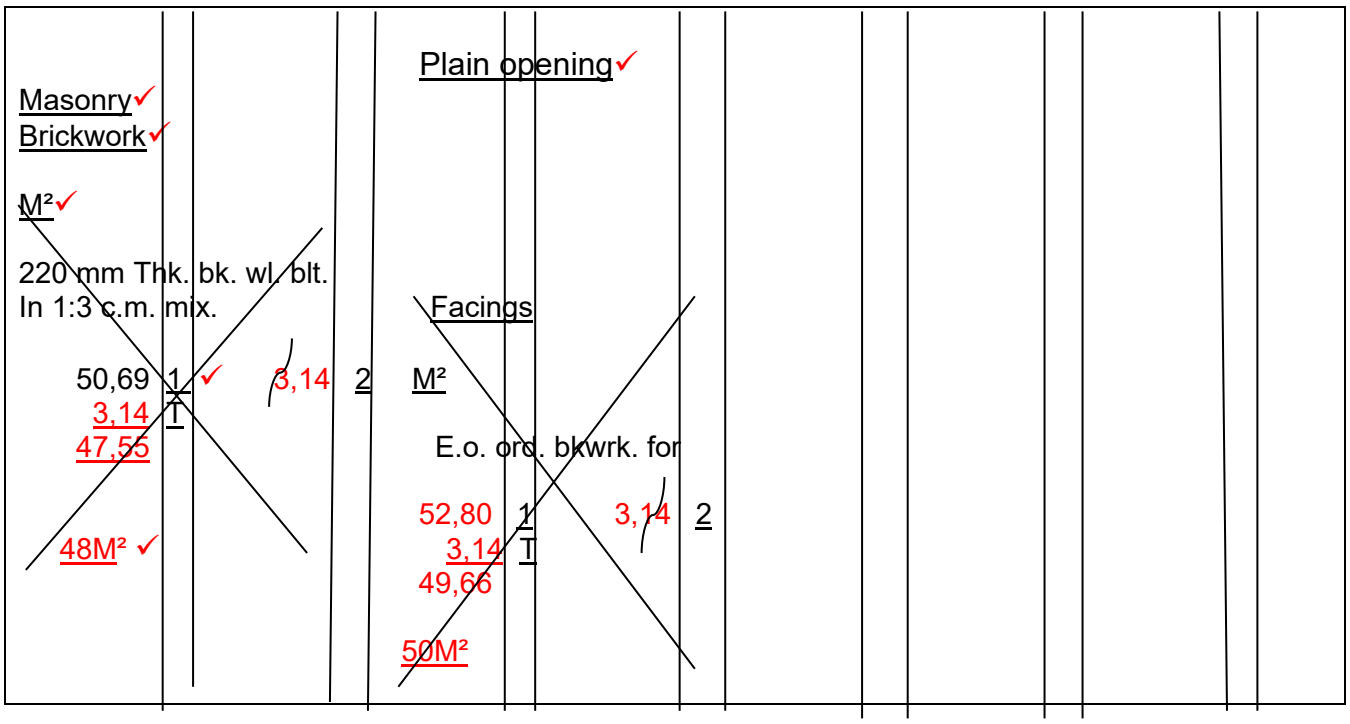
			Ddt.
	1,90 ✓ 0,15 ✓		220 mm Thk. wl. a.b.
		0,29	Width 1,500 +2/0,200 = 1,900 m✓
			&
			Ddt.
			E.o. ord. bkwrk. a.b.
			Ddt.
			220 mm Thk. wl. a.b.
	✓		&
	1,90		
	1,50 ✓		19 mm Thk. pls. a.b.
		2,85	&
		✓	
		3,14	2Cts. Pva. Pt. To pls. intl

(2)

Squaring		
Check dimensioning. (ticks)	0,5	
Square dimensions.	0,5	
Check squaring answers. (ticks)	0,5	(3)
Transfers to abstract.	1,5	

(3)

2.2 Abstracting



(3)

Abstracting		
Section of work.	0,5	
Trade.	0,5	
Units.	0,5	
Page referencing.	0,5	
Use of columns.	0,5	
Transfers to bill.	0,5	

Copyright reserved

2.3 Billing

	Plain opening✓				
	Bill No. 1✓				
✓	Masonry✓				
1.	Brickwork ✓	✓	✓		
	220 mm Thick brick wall built in ordinary stock bricks in 1:3 cement mortar mix.	M²	48		
2.	Facings				
	Extra over ordinary stock bricks for facings.	M²	50		
	Carried to summary✓			R	

(½ × 8) (4)

Billing		
Section of work.	0,5	
Bill no.	0,5	
Trade.	0,5	
Item no.	0,5	(4)
Descriptions. (No abbreviations)	0,5	
Units.	0,5	
Quantities.	0,5	
Summary	0,5	

[10]

TOTAL SECTION A: 40

Copyright reserved

SECTION B

QUESTION 3

3.1 Payment certificate
3.2 Undercoat
3.3 Interim payment
3.4 Purpose-made item
3.5 Retention
3.6 Variation order or site instruction
3.7 Bills of quantities
3.8 Working space
3.9 Sign-posting
3.10 Abstracting

(10 × 1) **[10]**

QUESTION 4

4.1
- To avoid excessive writing.
- To shorten lengthy words.
- To save time.

(3)

4.2 4.2.1 As usual

4.2.2 Surface bed

4.2.3 Clear site

4.2.4 Striking off and cure

4.2.5 Cement mortar

4.2.6 Working space

4.2.7 With

(7 × 1) (7)
[10]

QUESTION 5

5.1 A quantity surveyor is a professional consultant,✓ who offers his services to those who wish to invest in property development.✓ It is required of him to share his expert advice on all financial and contractual matters.✓ (3)

5.2 He is appointed by the client. (1)

5.3
- He must have a full understanding of the various systems of building construction.
- He must have a full understanding regarding specialised services, installations, materials and plant.
- He must have full knowledge of the many forms of contract and sub-contract agreements available.
- He must give advice regarding the costs of alternative methods of construction and different materials.
- He must know the most favourable solutions to problems the client might face.
- He must project an attitude of respect, integrity and honesty for the quantity surveying profession. (6 × 1) (6)

[10]

QUESTION 6

6.1 It is an amount of money allowed in the bill of quantities to make provision for:
- specialist work to be carried out by a specialist contractor.
- work that could not be measured at tender time.
- P.s. will be adjusted in the final account.
- The main contractor may add for profit and attendance on sub-contractor. (4)

6.2 It is an amount of money allowed in the bill of quantities to make provision for:
- specialist materials or units to be delivered only to the site.
- labour-only items for the fixing will be allowed at tender stage.
- P.c. sums will be adjusted at tender stage.
- The main contractor may add for profit. (4)

6.3 These are monies allowed in the bill of quantities to make provision for:
- price adjustments and expenditure which cannot be determined beforehand.
- This amount will be deducted in the final account. (2)

[10]

QUESTION 7

7.1
- Salaries and wages
- Equipment
- Materials
- Office supplies
- Utilities
- Marketing
- Insurance
- Interest
- Taxes

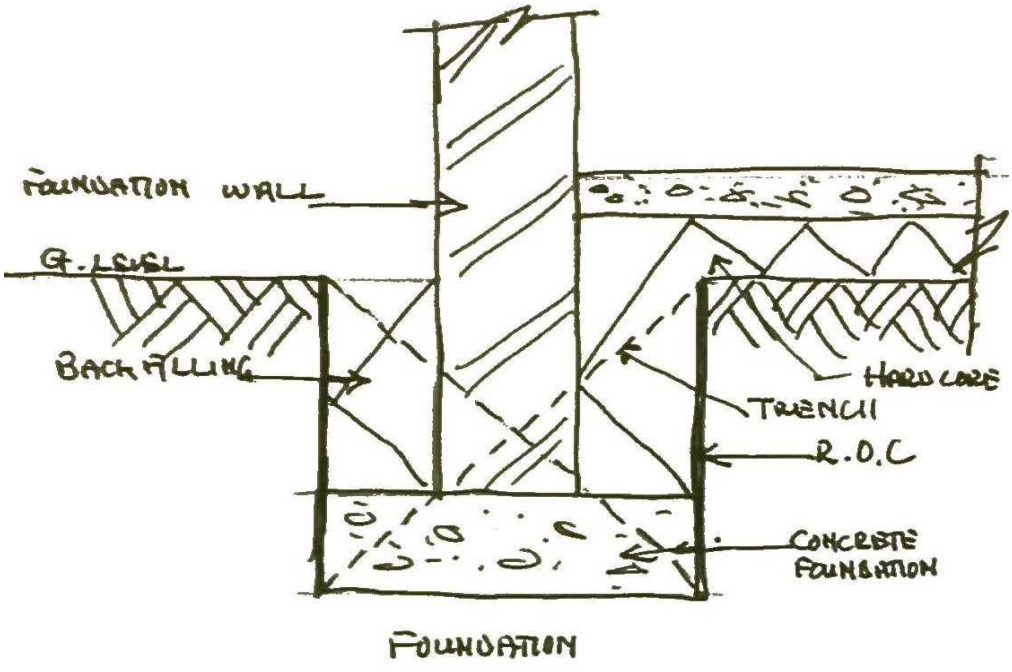
(5 × 1) (5)

7.2
- Fixed costs
- Variable costs
- Direct costs
- Indirect costs
- Sunken costs

(5 × 1) (5)

[10]

QUESTION 8



FOUNDATION

Correctness	3
Labels	7

[10]

TOTAL SECTION B: 60

GRAND TOTAL: 100

Copyright reserved