



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

14 April 2025

This marking guideline consists of 11 pages.

SECTION A

QUESTION 1

QUESTION 2

[illegible]

QUESTION 3

	1,34 1,24 0,83	✓ ✓	3.1 Excavate on earth for manhole not exc. 2m deep.✓ 600 500 +2/220 2/220 <u>+2/150</u> <u>2/150</u> 1340 1240 Depth 680 <u>+150</u> 830✓	2,20 0,50	✓	3.6 19 mm int. plst. To the inside of the mh.✓ Depth 680 – 180 = 500
				4,56 0,15 0,68	✓	3.7 Backfill to the sides of the mh. ✓ 5160 <u>-4/150</u> 4560
item		✓	3.2 Keep excavation free from h₂O			
	5,16 0,83 Or	✓	3.3 R.o.c. to the sides of the mh. N.e. 1,5m dp.✓ 2/1340 2680 2/1240 <u>2480</u> 5160			
2/	1,34 0,83					
2/	1,24 0,83					
	1,34 1,24 015.	✓	3.4 15 MPa mass concrete to the mh. Base.✓			
	3,08 0,68	✓	3.5 1 brick wall a.u.✓ 2/600 1200 2/500 <u>1000</u> 2200 + 4/ 220 <u>880</u> 3080			

[15]

(3)

[15]

(4)

QUESTION 4.1 (Squaring)

	1,34 1,24 0,83	1,66	3.1 Excavate on earth for manhole not exc. 2m deep.		2,20 0,50	1,10	3.6 19 mm int. plst. To the inside of the mh.	
			600 +2/220 +2/150 1340	500 2/220 2/150 1240	4,56 0,15 0,68		3.7 Backfill to the sides of the mh. 5160 -4/150 4560	
			Depth 680 +150 830					
item			3.2 Keep excavation free from H ₂ O				Mark allocation	
	5,16 0,83	4,28	3.3 R.o.c. to the sides of the mh. N.e. 1,5m dp.				Check side cast	1
2/	1,34 0,83	2,22	2/1340 2/1240	2680 2480			Check squaring	1
2/	1,24 0,83	2,06		5160			Squaring	1
		4,28					Run-through	1
	1,34 1,24 0,15	0,24	3.4 15 MPa mass concrete to the mh. Base.				Check transfers	1
							Check dimension	1
	3,08 0,68	2,09	3.5 1 brick wall a.u.				Double line squaring	1
			2/600 2/500 + 4/ 220	1200 1000 2200 880 3080			(Any) [5]	
(5)				(6)				

Please turn over

QUESTION 4.3

	<u>SECTION OF A DRAINAGE SYSTEM FOR MR SONGCA</u>				
	<u>BILL No. 1</u>				
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
1	25 MPa concrete to manhole base.	M ³	1		

	<u>SECTION OF A DRAINAGE SYSTEM FOR MR SONGCA</u>				
	<u>BILL No. 1</u>				
	<u>MASONRY</u>				
1	One brick walls in 1:4 cement mortar built in English bond.	M ²	2		

		[20]
TOTAL SECTION A:		60

TOTAL SECTION A: 60

Please turn over

SECTION B

QUESTION 5

- 5.1
- Name of building owner/the architect/the quantity surveyor/consultant with supervisor duties✓
 - Details of the form of contract✓
 - The location of site✓
 - General description of work✓
 - Proposed starting date✓
 - Proposed date for bills of quantities and submission of tenders✓
 - The latest date of the acceptance of invitation✓ (Any 2 × 1) (2)
- 5.2
- 5.2.1 Agreement: is a document set out general purpose of contract✓ and price.✓ (2)
- 5.2.2 General conditions of contract: is a document establish the rights and obligations of the contracting parties,✓ it lays down the roles and responsibilities of each party.✓ **OR** it is a document that explains the terms under which the work is to be undertaken, the relationship between the client, architect and contractor, the duties of the architect and the terms of payment;✓ it also stipulates how any disputes that arise will be solved.✓ (2)
- 5.2.3 Special conditions: it is an addition✓ or amendment to the general conditions document, it details the specific clauses and conditions of each project.✓ (2)
- 5.3
- Retention fund✓
 - Belongs to contractor✓ (2)
- [10]

QUESTION 6

- 6.1
- Beneficial variation order✓
 - Detrimental variation order✓ (2)
- 6.2
- Resource planning: is the process in which tasks are allocated to physical, human, financial and information resources✓ required to complete the project.✓ **OR** it is the process used to determine exactly what resources (people, equipment, materials)✓ and what quantities of each resources should be used to perform project activities.✓
- Cost estimation: this is a productive process used to quantify, cost and price✓ the resources required for the completion of the project.✓ **OR** it is the process of developing and approximating/making an estimation of the cost✓ of the resources needed to complete project activities.✓

Cost budgeting: includes the allocation of an estimated cost of resources to accounts, ✓ against which cost performance will be measured and assessed. ✓
OR it is the process of allocating the overall cost estimates to individual work items ✓ to establish a cost baseline for measuring project performance. ✓

Cost control: this is the practise of identifying and reducing project expenses ✓ to increase profit. ✓

(8)
[10]

QUESTION 7

- 7.1 True ✓
- 7.2 True ✓
- 7.3 True ✓
- 7.4 False ✓
- 7.5 False ✓
- 7.6 False ✓
- 7.7 True ✓
- 7.8 True ✓
- 7.9 False ✓
- 7.10 False ✓

(10 × 1) **[10]**

QUESTION 8

Preliminaries	R35 000,00
Earthworks	R160 400,00
Plumbing and drainage	R15 000,00
Concrete, formwork and reinforcement	R105 250,00 ✓
Masonry	R82 000,00
Waterproofing	R30 150,00
BUILDER'S WORK COMPLETE	R427 800,00 ✓
Add material on site	<u>R12 500,00</u> ✓
	R440 300,00 ✓
Add increased costs	<u>R13 500,00</u> ✓
	R453 800,00 ✓
Less 5% contract value (R1 660 150,00)	<u>R83 010,00</u> ✓
	R357 290,00 ✓
Less previous payments	<u>R250 120,00</u> ✓
Payment due to contractor	R107 170,00 ✓

[10]

TOTAL SECTION B: 40
GRAND TOTAL: 100