



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

17 April 2024

This marking guideline consists of 9 pages.

QUESTION 1

QUESTION 2

	1.1 Depth @ 2 $1500 \div 40 = 37,5\checkmark$ $= 37,3 + 460$ $= 597,5\checkmark$ 1.2 Depth @ 3 $9600 \div 40 = 240\checkmark$ $= 240 + 597,5$ $= 837,5\checkmark$ 1.3 Depth @ 4 $7300 \div 40 = 182,5\checkmark$ $= 182,5 + 837,5$ $= 1020\checkmark$ 1.4 Depth @ 5 $5100 \div 40 = 127,5\checkmark$ $= 127,5 + 1020$ $= 1147,5\checkmark$ 1.5 Total length 1500 $+ 9600$ $+ 7300$ $+ 5100$ $\underline{23500}\checkmark$ $540 \times 40 = 21600\checkmark$ i.e. (1) [10]	21.60 1.90	Excav. In ord. earth n.e 1 m✓ deep @ 710 mm✓ wide for the 110 mm✓ PVC pipe laid to 1:40 fall incl. of r.o.c,✓ risk of water, backfill✓ and e.o for c.a surplus mat.✓ ✓ Ditto exc. 1 m n.e 2 m✓ deep @ 910 mm✓ wide trench to ditto. $23500 - 21600 = 1900$ (2) r101
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QUESTION 3

3			<u>3.1</u>
	3	✓	✓ Extra for 110 mm dia. PVC pipe roding eyes
	1.00	✓	3.2 110 mm dia PVC pipe for re's to main pipe approx. 1 m or 1,5 m✓
	2	✓	3.3 Extra for 110 mm dia. PVC pipe i.e. plain Y- junct.✓
	3	✓	Extra for 110 mm dia. PVC pipe i.e. access bends @ approx. 135°✓
	2	✓	Extra for 110 mm dia. PVC pipe i.e. access bends.✓ (Any 4 marks)
(3)			

QUESTION 4

	✓ 2	4.1 Wall-mount water closet with happy D.2 seat and covers✓
	✓ 1	4.2 Extra for 110 mm dia. Gulley head✓
	1	✓ Extra for 110 mm dia. P-trap✓ (Any 3)
Item	✓	4.3 Allow provisional sum of R 9500.00 (Nine Thousand Five Hundred rand) for municipal connection.✓ & Allow for testing pipes✓
(4)		

1161

QUESTION 5.1: SQUARING

			<u>3.1</u> ✓ 3 ✓ 3 Extra for 110 mm dia. PVC pipe roding eyes ✓ 3.2 ✓ 110 mm dia PVC pipe for re's to main pipe approx. 1m. ✓ 3.3 2 2 Extra for 110 mm dia. PVC pipe i.e. plain Y-junct. ✓ 3 3 Extra for 110 mm dia. PVC pipe i.e. access bends @ approx. 135° ✓ 2 2 Extra for 110 mm dia. PVC pipe i.e. access bends. ✓ (5)			4.1 ✓ 2 2 Wall-mount water closet with happy D.2 seat and covers ✓ 4.2 ✓ 1 1 Extra for 110 mm dia. Gulley head 1 1 Extra for 110 mm dia. P-trap ✓ 4.3 Item ✓ Allow provisional sum of R 9500.00 (Nine Thousand Five Hundred rand) for municipal connection. ✓ & Allow for testing pipes ✓ Check dimension 1 Squaring 1 Run through 2 Transfers 1 5+2 2,5 (6)
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QUESTION 5.3: BILLING

UNDERGROUND DRAINAGE OF A DWELLING✓				
<u>BILL No. 1✓</u>				
<u>PLUMBING & DRAINAGE✓</u>				
✓	✓	✓	✓	
1.	Extra for 110 mm diameter PVC pipe Roding eyes	No	3	
2.	110 mm diameter PVC pipe for roding eyes to main pipe approx. 1 m.	No.	2	
3.	Extra for 110 mm diameter PVC pipe That is plain Y-junctions	No.	2	
4.	Extra for 110 mm diameter PVC pipe That is access bends.	No.	3	
5.	Wall-mount water closet with happy D.2 seat and covers	No.	2	
6.	Extra for 110 mm diameter Gulley	No	1	
7.	Extra for 110 mm diameter P-trap	No	1	
8.	Allow provisional sum for municipal connection.	Item		
9.	Allow for testing pipes	Item		
Carried to summary		✓		
				Section1 Trade1 Bill number1 Item number1 Description1 Unit1 Quantity1 Bill summary1 8
			R 9500.00	

[14]

QUESTION 6

	ITEM	TRADE	CLAUSE
6.1	Concrete lintel in situ	Concrete formwork and reinforcement✓	2✓
6.2	Brick lintel	Masonry✓	8✓
6.3	Glass	Glazing✓	1✓
6.4	Paint on frames	Paintwork✓	5✓
6.5	Timber windows	Carpentry and joinery✓	9✓

(5 × 2) [10]

TOTAL SECTION A: 60

SECTION B

QUESTION 7

- 7.1 7.1.1 Building contract – is a legal agreement✓ between two parties in the construction/building field which binds them as a legal obligation with rights between these two parties which may be a client and a contractor.✓
- 7.1.2 Tendering – is competing✓ with other builders by submitting a quote.✓
- 7.1.3 Specifications – are contained in a document that provides a detailed description✓ of the construction work to be carried out and how it should be executed.✓
- 7.1.4 Contract documents – are documents that describe the work,✓ rights, duties and responsibilities of all parties.✓
- 7.1.5 Site instruction – An instruction is issued by the architect or engineer to the contractor to perform a duty✓ and can have financial implications if the instruction is an addition to the contract.✓
- (5 × 2) (10)
- 7.2 • It is not always profitable and can lead to low quality work.
 • Time is wasted on preparing costs for many tenders.
 • It allows contractors who are financially and practically ill-equipped to get the work.
 • Poor quality of work can be produced by contractors without experience.
 • The lowest offer is not necessary the best offer.
 • Contractors know that the probability of being appointed is minimal.
 • Some contractors do not study the detail of contract and only focus on pricing to increase the chances of being awarded the tender.
 • There is no certainty that the accepted bid is from a contractor who can do the work satisfactory.
 (Any 5 × 1)

- 7.3
- Construction contract or agreement
 - Scope of work
 - Construction schedule
 - General conditions of contract
 - Specifications
 - Bill of quantities
 - Cost estimate
 - Contract drawings
 - Construction insurance
- (Any 5 × 1) (5)
[20]

QUESTION 8

- 8.1
- Delay in completion of project
 - Increase in project cost
 - Quality of work
 - Rework required
 - Logistical delays
 - Disputes
- (Any 5 × 1) (5)
- 8.2
- Preliminaries
 - Measured builders work
 - Value variations and extras
 - Work carried out by nominated subcontractors and suppliers
 - Material on site
 - Cost fluctuations/escalations
 - Approved loss and expenses
- (Any 5 × 1) (5)
[10]

QUESTION 9

- 9.1 R 65 500,00
- 9.2 R 1 859 523,09
- 9.3 R 1 850 440,00
- 9.4 R 65 500,00
- 9.5 R 24 150,00
- 9.6 R165 355,25
- 9.7 R 1 610 220,00
- 9.8 R 77 220,46
- 9.9 R 33 591,96
- 9.10 R 249 303,09

(10 × 1) [10]

TOTAL SECTION B: 40
GRAND TOTAL: 100