



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

5 December 2024

This marking guideline consists of 8 pages.

QUESTION 1

2/	7,90 0,52 0,98	✓	1.1	2/	7,90 0,52 0,98	✓	1.5
			$\frac{\pi D}{4} \checkmark \quad \text{or } \frac{2\pi r}{4} \checkmark$ $\frac{\pi \times 6820}{4}$ $= 5\,356,42 \checkmark$				Extra for mat. Avail. For filling. ✓
			Length width 2100 220 +5 356,42 +2/2000 +740 4220 ✓ +2/440 or 9 076,42 ✓ 440 +2/2000 2/2000 13 076,42 ✓ 4440 ✓ (Any 4)				(3)
			1.2				1.6
2/	0,74 0,74 0,98	✓	Wall length	2/	2,44 0,98	✓	R.o.c to the sides of s.t n.e 1,5 ✓ m dp. ✓ Trench
			2100 +5 356,42 740 8 196,42 ✓				Peer bases
			Trench length				Girth $3/740 = \frac{2220}{2440}$
			8 196,42 - 2/ 150 ✓ 7 896,42 ✓				(Any 4)
2/	0,74 0,74 0,98	✓	1.3	2/	0,74 0,74 0,98	✓	
			Excav. On earth for s.t. n.e 2m ✓ dp. From G.I.				
			○ Trench 750 230 980 ✓ ○ piers (any 4)				
			1.4 ✓				
2/	0,74 0,74 0,98	✓	Keep excav. Free from h ₂ O (2)	2/	0,74 0,74 0,98	✓	
			(1)				

QUESTION 2

2/	7,90 0,52 0,23	✓	2.1 ✓ 15 MPa mass concrete in ftgs. & in pier bases. ○ Trench	2/	8,20 2,27	✓	2.4 19 mm cement plast. Mix in 1:4 mortar mix. ✓
	0,74 0,74 0,23	✓	○ Pier bases (3)	2/	1,54 2,27	✓	2120 3/ 440 2/75 +2/110 2270✓ 1 540✓
			2.2 ✓ 1 bk.wl. in local stack brick in 1:4 c. mortar blt. In English bond 2120 750 2870✓	2/	1,76 0,33	✓	2600 -2250 330✓
	8,12 2,87	✓		4 2/4/	2,60 2,27	✓	Turning piece to ditto (any 5)
	0,44 0,44 2,87	✓	Do for piers				2.5 Backfill to the sides of s.t incl. the sides of the piers. ✓
	0,44 0,44 0,33	✓	Do for isolated rising above piers 2450 – 2120 = 330 (5)	2/	7,90 0,15 0,75	✓	○ Trench 520 -220 300÷2 =150✓
			2.3 B.o.e coping✓	2/	0,74 0,74 0,75	✓	○ Piers
	8,20	✓					Ddt
	2	✓	450 x 450 x 150 mm p.c caps. (3) (any 1 mark for description) (3)	2/	0,44 0,44 0,75	✓	Ditto (any 4)
			(3)				(4)

1201

SECTION B

QUESTION 4

- 4.1 B
- 4.2 A
- 4.3 C
- 4.4 C
- 4.5 C
- 4.6 B
- 4.7 B
- 4.8 B
- 4.9 B
- 4.10 A

(10 × 1) [10]

QUESTION 5

- 5.1 5.1.1 Retention fund✓ kept at a bank.✓ (2)

5.1.2 A retention fund is a fund established at any reputable financial institution of which the contactor✓ and client✓ are the account holders. An amount of equal to 10% of the monthly valuations is withheld and disposed into this account.✓ The total value of the retention withheld may not exceed 5% of the original contract amount.✓ The money in this fund belongs to the contractor✓ but serves as a deterrent for the use of poor quality materials and producing poor workmanship.✓

It is expected that any defects✓ that may arise after the practical completion will be rectified by the contractor.✓ In the event that the contractor does not fulfil his obligation, the architect or engineer will appoint another contractor to complete the work✓ and pay him/her from the retention fund.✓ (Any 8 × 1) (8)

5.2 INTERIM VALUATION

Preliminaries and general items	2/9	R125 300,00	✓R27 840,00	
Earthworks	100%	R99 510,00	✓R99 510,00	
Concrete work	25%	R457 678,00	✓R114 420,00	
Masonry	40%	R220 300,00	✓R88 120,00	
Builder's work complete			✓R329 890,00	
Add material on site			✓R6 500,00	
			✓R336 390,00	
Less 5% of contract value		R1 726 052,29	✓R86 300,00	
			✓R250 090,00	
Less previous payment			R182 350,00	
Amount due to the contractor			✓R67 740,00	(10) [20]

QUESTION 6

- 6.1 Specifications are contained in a document that provide a detailed description of the construction work to be carried out and how it should be executed. They provide details on what cannot be explained in the drawings. (2)
- 6.2
- The strength of material and construction work.
 - The ratio of concrete and mortar ingredient.
 - Type of material.
 - The colour of construction materials.
 - Clause of contracts.
 - Cost of material.
 - Procedure of construction work.
 - Construction material, tools and plant used during construction. (Any 4 × 1) (4)
- 6.3
- Quantity surveying
 - Construction surveying
 - Valuers
 - Property development
 - Consultants
 - Government employees
 - Downpipes to buildings (plumbing) (Any 4 × 1) (4)

[10]

TOTAL SECTION B: 40
GRAND TOTAL: 100