higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N4

13 APRIL 2018

This marking guideline consists of 9 pages.

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SECTION A

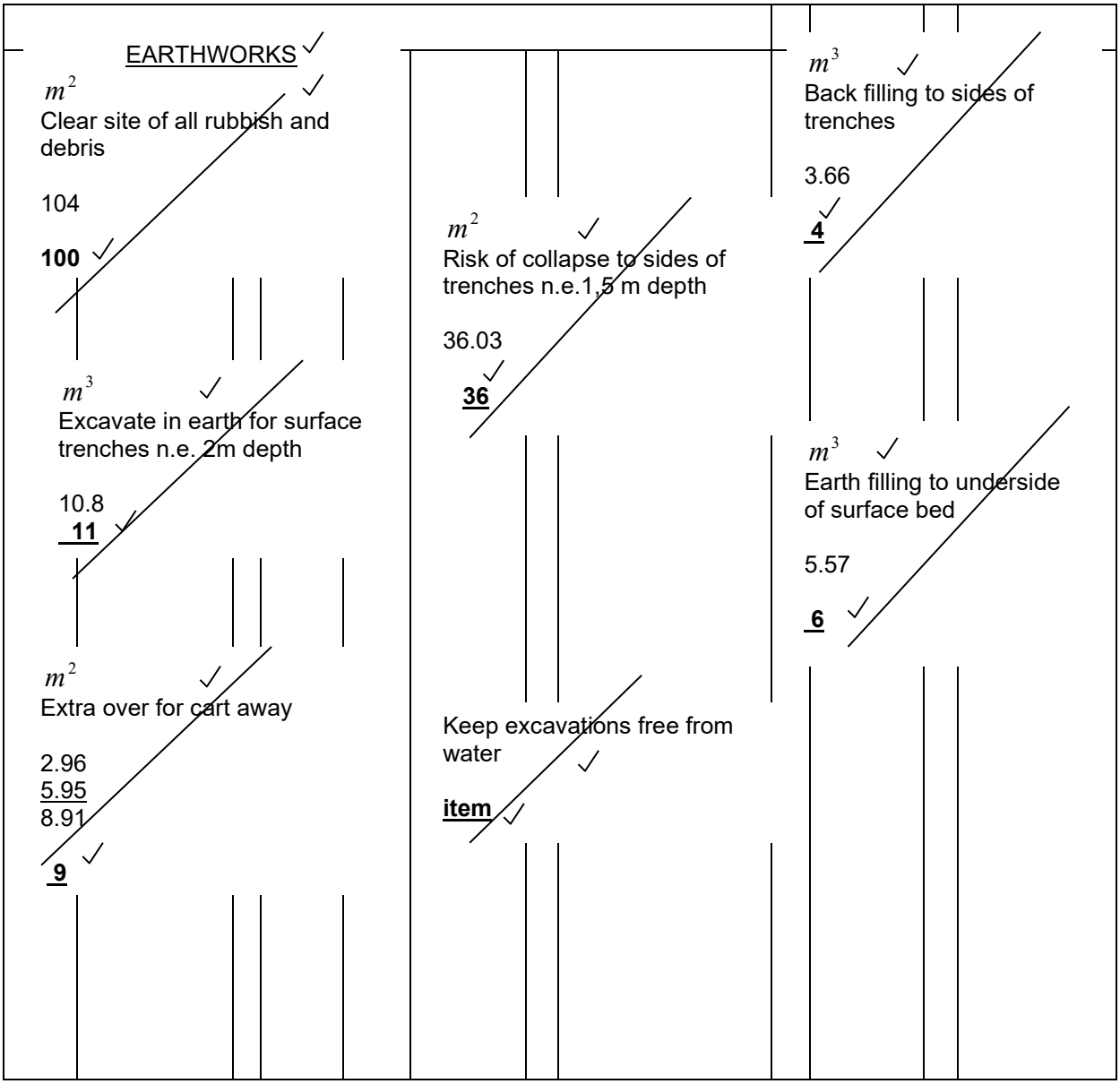
QUESTION 1

1.1

			OUTBUILDING CHECKLIST		✓		✓
					24.68		15Mpa concrete in
					.60		trenches for
			Clearsite		.20		foundation
			Excavation				footings.
			Risk collapse				
			Risk of water		✓		
			Concrete ✓		24.68		✓
			Brickwall		.73		1½ brickwall built
			Backfill				in stretcher bond
			Cart away				
			Earthfilling	✓	✓		
			e.o.o.b	2	24.68		✓
			✓		.53		Backfilling to sides
			Clearsite of all rubbish		.14	3.66	of trenches
			and debris				including p.r. & f
							&
							Ddt ✓
							e.o. for ca a.b.
	✓						
	13.00		4000 ✓ 9000				
	7.00	100	+2/2000 2/2000		✓		✓
			8000 13 000		24.68		Extra over cart
					.60		away surplus
			Excavate in earth for		.30	2.96	material
			surface trenches n.e.		✓		
			2m in depth ✓		24.68		
			&		.73		
			e.o c.a surplus		.33	5.95	
			material ✓				
	✓				✓		
	24.68		200		8.34		Earth filling to ✓
	.73		+ 525 ✓		3.34		underside of
	.60	10.8	725		.20	5.57	surface bed
	✓		✓		✓		✓
2/	24.68		Risk of collapse to		26.00		e.o. brick in facings
	.73	36.0	sites of trenches n.e		.35		including wall ties
			1.5m deep				
							200 ✓
							2/75
							350
	✓		✓				
	item	item	Keep foundations free				End of dimensions
			of water				

(24)

1.2 OUTBUILDING ✓



MARKS

Taking off	=	24
Method	=	2
Squaring	=	4
Abstract	=	4
Billing	=	6
		40

o.	Description	unit	qty	rate	rand	cents
	EARTHWORKS					
	Bill No.1					
1	Clear site as usual	m^2	100			
2	Excavate earth for surface trenches n.e. 2m depth	m^3	11			
3	Extra over excavation for cart away of surplus material	m^3	9			
4	Risk of collapse to sides of trenches n.e. 1,5m depth	m^2	36			
5	Keep all excavations free of water	item	item			
6	Backfilling to sides of trenches	m^3	4			
7	Earth filling to underside of surface bed	m^3	6			
	Bill no. 1 carried to summary					

(16)

TOTAL SECTION A: 40

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SECTION B

QUESTION 2

2.1	2.1.1	ECP on bk. horizontal surfaces		
	2.1.2	Ex. For f.f		
	2.1.3	R.oc. to sides of s.t		
	2.1.4	Fmwk to edge of slab n.e. 150 mm hi.		
	2.1.5	K.P.S and 2© enamel on timber doors	(5 × 1)	(5)
2.2	2.2.1	Deduct		
	2.2.2	Measured		
	2.2.3	Poly vinyl acetate		
	2.2.4	Foundations		
	2.2.5	Galvanised mild steel	(5 × 1)	(5)
2.3	- To check the nature of the ground - To check the ground levels. - To see if there are any obstructions - to check if any demolitions need to be carried out - To measure any alterations to existing buildings - To make general notes which could involve extra money.		(Any 5 × 1)	(5)
2.4	2.4.1	Rough cutting		
	2.4.2	Beam filling		
	2.4.3	Centering or turning piece		
	2.4.4	Roof tie		
	2.4.5	Fair cutting	(5 × 1)	(5)

QUESTION 3

3.1	3.1.1	True		
	3.1.2	False		
	3.1.3	True		
	3.1.4	False		
	3.1.5	True		
	3.1.6	True		
	3.1.7	False		
	3.1.8	False		
	3.1.9	False		
	3.1.10	True	(10 × 1)	(10)

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3.2	3.2.1	Circular on plan		
	3.2.2	Measured net		
	3.2.3	Adjustments		
	3.2.4	Retention fund		
	3.2.5	Variation order		
	3.2.6	Casting up		
	3.2.7	Reducing		
	3.2.8	Green		
	3.2.9	Blue		
	3.2.10	Leavings	(10 × 1)	**(10)**
				[20]

QUESTION 4

4.1
- Study the drawings with the specifications and taking off quantities
- Check side casts, squaring out the dimension and checking them
- Abstracting items and checking the abstract
- Working up abstract, billing and checking bills
- -Typing and reading over the bills of quantities (5)

4.2 The function of the abstract is to collect similar items together to a certain accepted order for the writing of the bill of quantities. i.e. adding similar tasks in the contract which will be paid for at the same price under one item (5)

4.3
- Descriptions must be unambiguous
- No abbreviations are allowed
- Description should be brief but clear
- Descriptions must contain all the information required under the standard System.
- Descriptions should be formal and good grammar should be employed
- The term ditto could be used to simplify very long and very similar repetitive descriptions but should be available if any doubt could arise to the meaning of the description. (Any 5 × 2) (10)

[20]

TOTAL SECTION B: 60
GRAND TOTAL: 100

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