

073204T4PLM

PLUMBING LEVEL 4

CON/OS/PL/CR/03/4/A

Install Drainage System

Nov/Dec 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
TASK 1:			
1. Adhered to prescribed safety as per work place procedure and OSHA. student worn full PPE. • safety boots • helmet • apron	1		

<i>(Award one mark for full PPE donned as per workplace procedures or zero)</i>			
2. Identified reference points on the ground based on the site drawing. <i>(Award 2 marks or zero)</i>	2		
3. Differentiated working drawing based on technical drawings standards. <i>(Award 3 marks or zero)</i>	3		
4. Identified reference points on the ground based on the site drawing. <i>(Award 2 marks or zero)</i>	2		
5. Identified tool, equipment, required during the construction • Mason trowels • Mason square • Spirit level • Boning rod • Float • Mallet • Ball hammer • Masonry chisel • Plumb bob • Tape measure <i>(Award 2 mark for any 4 assembled tools or zero)</i>	2		
6. Identified appropriate drainage materials and supplies based on the drawings. • Sand • Ballast • Lime • Concrete blocks	2		

<i>Award 2 mark for any assembled materials)</i>			
7. Transferred measurements to the ground based on working drawing • 900 mm length. • 750 mm width <i>(Award 1 mark for each or zero)</i>	2		
8. Laid above ground drainage components based on the levels • Concrete base • Manhole wall • Benching <i>(Award 3 marks each or zero)</i>	3		
9. Stabilized drainage pipeline base, based on drawings. <i>(Award 1 marks or zero)</i>	1		
10. Laid above ground drainage pipes based on the levels • 75mm difference in levels. • 1,200 mm drainage pipe <i>(Award 2 marks each or zero)</i>	2		
11. Conducted functionality tests based on best practices <i>(Award 2 mark or zero)</i>	2		
12. Corrected faults in drainage system based on best practice. <i>(Award 1 marks or zero)</i>	1		
13. Tools and equipment are cleaned and stored as per manufacturers' instructions. <i>(Award 1 for cleaned and stored tools)</i>	1		

14. Segregated and disposed of waste in line with environment protection guidelines. (Award 1 marks for cleaned area)	1		
Sub-Total 1	25		
PRODUCT CHECKLIST			
15. Constructed a functional drainage system based on working drawing. Dimensions 1,200 mm between MH1 and MH2, - Internal MH height 550 mm, - Internal MH length 600mm, - Internal MH width 450. 900x600x75 mm concrete base. - Blinding later 20 mm. - Smooth benching - Provision for inlet and outlet pipes (Award a mark for each correct dimension)	1 1 1 1 1 1 1 1		
16. Correct gradient achieved between MH1 and MH2 (Award 3 marks or zero)	3		
17. Concrete blinding well done, (Award 3 marks for proper concrete blinding and 3marks for aligning the concrete cover)	3		
18. Haunching (Award 2 marks for proper finishing or zero)	2		
19. Correct Gradient (Award 3 marks for proper finishing or zero)	3		
20. Plumbness, levelness and squareness of the manhole	3		

(Award 1 mark each or zero)			
21. Completion of the task. (Award 3 marks for 100% completion, 2 mark for 75% completion or zero)	3		
Sub-Total 2	25		
GRAND TOTAL	50		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet Competent ☐ (Please tick as appropriate) (The candidate is competent if the candidate obtains at least 50%)			
Feedback from the Candidate:			
Feedback to the Candidate:			
Candidate Signature		Date:	
_____		_____	
Assessor's Signature		Date	
_____		_____	