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073204T4PLM

PLUMBING LEVEL 4

CON/OS/PL/CR/05/4/A

Install Water Storage and Ancillary Appliances

Nov/Dec 2024

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

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PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: *Please award marks as appropriate. Give a brief comment on your observation.*	**Marks Available**	**Marks Obtained**	**Comments**
1. Used personal Protective Equipment in line with occupational safety and health regulations. • Safety boots.	**1**		

• Overall. *(Award o1 mark for both or zero)*			
2. Interpreted working drawing based on technical drawings standards. *(Award 2 marks or zero)*	**2**		
3. Read the scale of the drawing based on the legend. *(Award 1 mark or zero)*	**1**		
4. Identified Symbols based on technical drawings standards *(Award 1 mark or zero)*	**1**		
5. Identified Materials required for installing storage and ancillary appliances based on requirements of the job. *(Award 1 mark or zero)*	**1**		
6. Identified tools and equipment needed for fixing storage and ancillary appliances based on the job requirements. *(Award 1 mark or zero)*	**1**		
7. Identified Water storage structures and pumps types based on the drawing. *(Award 1 mark or zero)*	**1**		
8. Erected timber supports for water storage based on the drawing provided. *(Award 3 marks or zero)*	**3**		
9. Mounted the Storage and ancillary appliances per workplace procedures. *(Award 2 mark or zero)*	**2**		
10. Fixed the water tank fittings appropriately. • Tap. • Ball valve • Gate valve	**3**		

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(Award 3 mark for each or zero)			
11. Positioned the pipes from water storage tank to the mains based on the drawings provided. *(Award 2 marks or zero*)	**2**		
12. Installed the water pump correctly based on the manufacturers' instructions *(Award 2 mark zero)*	**2**		
13. Positioned the pipes correctly from the mains to the centrifugal pump *(Award 2 marks or zero)*	**2**		
14. Tested functionality of the water storage and ancillary appliances based on manufacturer's manual and requirements. *(Award 2 marks or zero)*	**2**		
15. Cleaned and stored tools and equipment as per manufacturers' instructions. *(Award 1 mark or zero)*	**1**		
16. Conducted housekeeping and ensured wastes are disposed in line with environment protection guidelines. *(Award 1 mark or zero)*	**1**		
Total	**26**		
PRODUCT CHECKLIST			

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17. Storage and ancillary appliances are well mounted based on job requirements. • Verticality of the support • Firmness. • Correct measurements *(Award 1 mark for each* x *3 = 3 Marks or zero)*	**3**		
18. Measurements of the pipe work are as per the working drawing. • 2 x 900 mm • 2 x 600 mm • 2 x 250 mm • 2 x 100 mm *Award* $\frac{1}{2}$ *mark for each* $\times$ *8 = 4 marks or zero)*	**4**		
19. Backnuts on the storage tank are fitted as per the SOPs *(Award 2 marks or zero)*	**2**		
20. Installed pipe work, fittings and storage systems are free from leakages and other faults. • Taps. • Valves. • Union. • Bend. • Centrifugal pump. *(Award 1 mark for each)*	**5**		
21. Fusion of PPR is done as per the SOPs *(Award 2 marks or zero)*	**2**		
22. Only 2-3 threads are left exposed on the GI pipes *(Award 3 marks or zero)*	**3**		
23. Functionality tests are performed on the Storage and ancillary appliances based on	**3**		

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manufacturer's manual and requirements. *(Award 3 marks or zero)*			
24. Tools and equipment well cleaned and stored after the job. *(Award 2 marks or zero)*	**2**		
	24		
TOTAL	**50**		
GRAND TOTAL			

ASSESSMENT OUTCOME

The candidate was found to be:

Competent ☐ Not yet Competent ☐

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(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**

_____ _____