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073105T4PLM

PLUMBING LEVEL 5

CON/OS/PL/CR/02/5

Install Rainwater Harvesting and Disposal

July/August 2025

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATIONCOUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT ASSESSOR'S GUIDE

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INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the tasks.
2. You are required to take video clips at critical points.
3. Ensure the candidate has an identification tag pinned at the back and front near the shoulders showing Candidate's name and registration code.

This practical assessment checklist consists of FIVE printed pages.
Assessor should check to ascertain that all pages are printed as indicated and that no page is missing.

PRACTICAL ASSESSMENT CHECKLIST

OBSERVATION CHECK LIST			
Candidate's name & Registration No.			
Assessor's name & Id code			
Venue of Assessment			
Date of assessment			
Items to be evaluated:	**Marks allocated**	**Marks obtained**	**Comments**
1. Appropriate use of PPE'S as per OSHA regulations. i. Helmet. ii. Gloves. iii. Dustcoat. *(Award 1 marks for each PPE worn or zero)*	**1** **1** **1**		
2. Interpreted working drawing based on technical drawings standards. i. Location of Downspouts ii. End Cap Installation *(Award 1mark for correct interpretation or zero)*	**1** **1**		
3. Identified reference points on the ground based on the site drawing. *(Award 1 mark or zero)*	**1**		
4. Measured and counted materials and supplies required based on working drawings and specifications.	**2**		

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(Award 2 mark or zero)			
5. Identified rainwater harvesting materials and supplies based on the drawing i. Wall clips ii. Downspout iii. Steel nails iv. Brackets *(Award 1/2 mark for each, for any 4 items correctly identified or zero)*	**1** **1** **1** **1**		
6. Took measurements and marked out done based on the drawing i. 100x150x1000 mm ii. 100x150mm end cup iii. 100mm downspout position iv. 1,800mm downspout height *(Award 1mark for each correct measurement taken +/- 2mm or zero)*	**1** **1** **1** **1**		
7. Assembled pieces based on working drawing i. Downspout groove spout lap seam joint ii. Gutter outlet iii. Gutter end caps. *(Award 1 mark for each or zero)*	**1** **1** **1**		
8. Jointed pieces based on drawing. i. Downspout groove spout lap seam joint ii. Gutter outlet iii. End caps. *(Award 2 marks for each precise cutting or zero)*	**2** **2** **2**		
9. Mounted rain water goods based on working drawing.			

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i.Downspout ii.Gutter *(Award 2 marks or zero)*	**2** **2**		
10. Disposed of segregated wastes in line with environment protection guidelines. *(Award 2 marks or zero)*	**2**		
11. Cleaned and stored tools and equipment as per manufacturers' instructions. *(Award 1 mark or zero)*	**1**		
12. Stored surplus materials and supplies as per manufacturers' instructions. *(Award 1 mark or zero)*	**1**		
SUBTOTAL	**33**		
PRODUCT CHECKLIST			
13. Installed rain water goods based on working drawing i. Downspout plumbness. ii. Gutter levelness. iii. Correct assembly as per the drawing iv. No leakages *(Award 2 marks for each point 2*4 =8 or zero)*	**2** **2** **2** **2**		
14. Constructed firm installation of gutter and downspout on the wall. *(Award 2 marks or zero)*	**2**		
15. Conducted water test based on best practices. i. No leakages ii. Constant flow rate *(Award 1 mark on each or zero)*	**1** **1**		

16. Corrected faults in structure and functionality of rainwater harvesting system based on best practice. i. Horizontality/levelness of the gutter ii. Verticality of the down pipe iii. Loose joints/ Leakages *Award 1 mark on each or zero)*	**1** **1** **1**		
17. Completion of the task (Award 2 marks for 75% completion) (Award 1 marks for 50% completion)	**2**		
SUB TOTAL 2	**17**		
GRAND TOTAL	**50**		

ASSESSEMENT 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 candidate

Candidate's signature	**Date**	
Assessor's signature	**Date**	