

073204T4PLM

PLUMBING LEVEL 4

CON/OS/PL/CR/02/4/A

Install Rainwater Harvesting Systems

Nov/Dec 2024



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

**PRACTICAL ASSESSMENT**

**OBSERVATION CHECKLIST**

|                                                                                                                                                                                     |                        |                       |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|
| <b>Candidate's Name &amp; Registration Code</b>                                                                                                                                     |                        |                       |                 |
| <b>Assessors Name &amp; Registration Code</b>                                                                                                                                       |                        |                       |                 |
| <b>Venue of Assessment</b>                                                                                                                                                          |                        |                       |                 |
| <b>Date of Assessment</b>                                                                                                                                                           |                        |                       |                 |
| <b>Items to be Evaluated:</b> <i>Please award marks as appropriate. Give a brief comment on your observation.</i>                                                                   | <b>Marks Available</b> | <b>Marks Obtained</b> | <b>Comments</b> |
| 1. Used personal Protective Equipment in line with occupational safety and health regulations. <ul style="list-style-type: none"> <li>• Helmet.</li> <li>• Safety boots.</li> </ul> | <b>1</b>               |                       |                 |

|                                                                                                                                                                                                                                                                                                                                              |           |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|
| <ul style="list-style-type: none"> <li>Overall.</li> </ul> <p><i>(Award one mark for full PPEs donned or zero)</i></p>                                                                                                                                                                                                                       |           |  |  |
| <p>2. Interpreted working drawing based on technical drawings standards.</p> <p><i>(Award three marks zero)</i></p>                                                                                                                                                                                                                          | <b>3</b>  |  |  |
| <p>3. Identified rainwater harvesting materials and supplies required based on the drawings and specifications.</p> <p><i>(Award one mark or zero)</i></p>                                                                                                                                                                                   | <b>1</b>  |  |  |
| <p>4. Measured and counted materials and supplies required based on working drawings and specifications</p> <p><i>(Award one mark or zero)</i></p>                                                                                                                                                                                           | <b>1</b>  |  |  |
| <p>5. Measured out and cut the gutter outlet parts based on working drawing</p> <ul style="list-style-type: none"> <li>140 mm x 2</li> <li>70 mm x 3</li> <li>15 mm x 3</li> <li>25 mm x 4</li> <li>50 mm x 4</li> <li>35 mm x 2</li> <li>6 mm x 6</li> </ul> <p><i>(Award ½ mark for each correct length or zero; ½ x24=12 or zero)</i></p> | <b>12</b> |  |  |
| <p>6. Measured out and cut out downpipe based on working drawing.</p> <p><i>(Award three marks zero)</i></p>                                                                                                                                                                                                                                 | <b>3</b>  |  |  |
| <p>7. Jointed and assembled pieces based on working drawing</p> <ul style="list-style-type: none"> <li>Gutter.</li> <li>Gutter outlet.</li> <li>Downpipe.</li> </ul>                                                                                                                                                                         | <b>3</b>  |  |  |

|                                                                                                                                                                                                                                  |           |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|
| (Award one mark each or zero)                                                                                                                                                                                                    |           |  |  |
| 8. Installed rain water goods based on working drawing.<br>(Award 3 marks or zero)                                                                                                                                               | 3         |  |  |
| 9. Conducted water test is based on best practices.<br>(Award 2 marks or zero)                                                                                                                                                   | 2         |  |  |
| 10. Corrected faults in structure and functionality of rainwater harvesting system based on best practice.<br>(Award 2 marks or zero)                                                                                            | 2         |  |  |
| 11. Segregated and disposed of wastes in line with environment protection guidelines.<br>(Award 1 mark or zero)                                                                                                                  | 1         |  |  |
| 12. Cleaned Tools and equipment as per manufacturers' instructions.<br>(Award 1 mark or zero)                                                                                                                                    | 1         |  |  |
|                                                                                                                                                                                                                                  |           |  |  |
| <b>Sub Total</b>                                                                                                                                                                                                                 | <b>33</b> |  |  |
| <b>PRODUCT CHECKLIST</b>                                                                                                                                                                                                         |           |  |  |
| 13. Well installed gutter and downpipe system <ul style="list-style-type: none"> <li>• Clipping</li> <li>• Firmness</li> <li>• Levelness</li> <li>• Plumbness</li> <li>• No leakages</li> <li>• Correct gutter shape.</li> </ul> | 6         |  |  |

|                                                                                                                                                                                                                                          |            |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--|
| (award one marks for each or zero)                                                                                                                                                                                                       |            |  |  |
| 14. Functionality of the water harvesting system<br>(Award two marks or zero)                                                                                                                                                            | 2          |  |  |
| 15. No excessive marks on G.I sheet metal.<br>Award 2 marks or zero)                                                                                                                                                                     | 2          |  |  |
| 16. Uniformity of the single lock welt joint:<br><ul style="list-style-type: none"> <li>End cup<br/>(Award one marks each or zero)</li> <li>Gutter outlet<br/>(Award two marks or zero)</li> </ul>                                       | 3<br><br>2 |  |  |
| 17. Completeness of the project<br>(Award 2 marks for 100% completion and 1 mark for 75% completion or zero)                                                                                                                             | 2          |  |  |
| <b>SUB TOTAL</b>                                                                                                                                                                                                                         | <b>17</b>  |  |  |
| <b>GRAND TOTAL</b>                                                                                                                                                                                                                       | <b>50</b>  |  |  |
| <b>ASSESSMENT OUTCOME</b>                                                                                                                                                                                                                |            |  |  |
| <p>The candidate was found to be:</p> <p>Competent <input type="checkbox"/> Not yet Competent <input type="checkbox"/></p> <p>(Please tick as appropriate)</p> <p>(The candidate is competent if the candidate obtains at least 50%)</p> |            |  |  |

|                                     |              |
|-------------------------------------|--------------|
| <b>Feedback from the Candidate:</b> |              |
| <b>Feedback to the Candidate:</b>   |              |
| <b>Candidate Signature</b>          | <b>Date:</b> |
| _____                               | _____        |
| <b>Assessor's Signature</b>         | <b>Date</b>  |
| _____                               | _____        |

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