

**073203T4PLM**

**PLUMBING LEVEL 3**

**CON/OS/PL/CR/03/3/B**

**Install Water Storage and Pumping Systems**

**July/ August 2025**



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

**PRACTICAL ASSESSMENT**

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**INSTRUCTIONS TO ASSESSOR**

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

## 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> |
| <b>Task 1: Install storage tank and pump</b>  |                        |                       |                 |
| 1. Used personal Protective Equipment in line with occupational safety and health requirements <ul style="list-style-type: none"> <li>• Apron</li> <li>• Safety boots</li> <li>• Helmet</li> </ul> <i>(Award 1 mark for each PPE; 3 x 1 = 3 Marks)</i>                      | 3                      |                       |                 |
| 2. Interpreted the drawing correctly <ul style="list-style-type: none"> <li>• Measurements</li> <li>• Fittings</li> </ul> <i>(Award 2 mark or zero; 2 x 1 = 2 Marks)</i>  | 2                      |                       |                 |
| 3. Identified materials required for piping <i>(Award 2 marks for correct material; 2 x 1 = 2 Marks)</i>  | 2                      |                       |                 |
| 4. Used the tools according to job requirement. <ul style="list-style-type: none"> <li>• Hacksaw</li> <li>• Heat fusion machine</li> <li>• Pipe wrench</li> <li>• Tape measure</li> </ul> <i>(Award 1 mark for any 4 tools used appropriately or zero; 4 x 1 = 4 Marks)</i> | 1<br>1<br>1<br>1       |                       |                 |
| 5. Identified the symbols: <ul style="list-style-type: none"> <li>• Ball valve</li> <li>• Gate valve</li> </ul>   | 1<br>1                 |                       |                 |

|   |           |  |  |
|---|-----------|--|--|
| <ul style="list-style-type: none"> <li>• Non-return valve</li> <li>• Tap</li> </ul> <p><i>(Award 1 mark for each correct identified symbol or zero; 4 x 1 = 4 Marks)</i></p>                        | <b>1</b>  |  |  |
| 6. Measured and cut pipes correctly.<br><i>(Award 2 marks or zero; 2 x 1 = 2 Marks)</i>   | <b>2</b>  |  |  |
| 7. Fitted pipes to fittings correctly.<br><i>(Award 3 marks or zero; 3 x 1 = 2 Marks)</i>   | <b>3</b>  |  |  |
| 8. Installed the storage tank and its fittings (male PPR adapter and female PPR adapter)<br><i>(Award 2 marks or zero; 2 x 1 = 2 Marks)</i>   | <b>2</b>  |  |  |
| 9. Installed the water pump and its fittings (male PPR adapter)<br><i>(Award 2 marks or zero; 2 x 1 = 2 Marks)</i>  | <b>2</b>  |  |  |
| 10. Properly disposed waste<br><i>(Award 2 marks or zero)</i>   | <b>2</b>  |  |  |
| <b>Sub-Total 1</b>  | <b>26</b> |  |  |
| <b>Task 2: Functionality test</b>   |           |  |  |
| <b>PRODUCT CHECKLIST</b>  |           |  |  |
| 11. Measurements: <ul style="list-style-type: none"> <li>• 1600</li> <li>• 1300</li> <li>• 400</li> <li>• 300</li> <li>• 1000</li> </ul> <p><i>(Award 1 mark or zero each; 5 x 1 = 5 Marks)</i></p> | <b>5</b>  |  |  |
| 12. Fitted joints<br><i>(Award ½ mark for any 10 or zero; ½ x 10 = 5 Marks)</i>   | <b>5</b>  |  |  |
| 13. Conducted functionality test.(pressure water flow   | <b>2</b>  |  |  |

|  |                      |  |  |
|--|----------------------|--|--|
| from pump to tank and tank to the tap)<br><i>(Award 2 marks or zero)</i>   |                      |  |  |
| 14. Functional water storage tank.<br><i>(Award 3 marks or zero)</i>   | <b>3</b>             |  |  |
| 15. Functional water pump.<br><i>(Award 2 marks or zero)</i>   | <b>2</b>             |  |  |
| 16. General appearance.<br><ul style="list-style-type: none"> <li>• Plumbness</li> <li>• Neatness</li> </ul> <i>(Award 2 marks for each or zero)</i> | <b>2</b><br><b>2</b> |  |  |
| 17. Completion<br><i>(Award 3 marks for 100% completion, 2 marks for 75% completion, or 1 mark for 50% completion)</i>                               | <b>3</b>             |  |  |
| <b>Sub-Total 2</b>   | <b>24</b>            |  |  |
| <b>GRAND TOTAL</b>   | <b>50</b>            |  |  |

**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**

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