©2025 TVET CDACC

**073105T4PLM**

**PLUMBING LEVEL 5**

**CON/OS/PL/CR/07/5**

**Install Fire Control 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

Ensure the candidate has a name tag and registration code at the back and front.

**This paper consists of FOUR (4) printed pages**

**Assessor should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.**

| OBSERVATION CHECKLIST | | | |
|---|---|---|---|
| **Candidate's name & Registration No.** | | | |
| **Assessor's name & Id code** | | | |
| **Unit(s) of Competency** | | | |
| **Venue of Assessment** | | | |
| **Date of assessment** | | | |
| | | | |
| Items to be evaluated: | **Marks allocated** | **Marks obtained** | **Comments** |
| **TASK 1: Install the fire control system** | | | |
| 1. Used personal protective equipment in line with occupational safety and health requirements<br>i. Gloves<br>ii. Overall<br>iii. Industrial boots<br>(***Award 1 mark for each PPEs won or zero=3 marks)*** | **1**<br>**1**<br>**1** | | |
| 2. Transferred pipe layout as per the given drawing.<br>accurate measurements of pipes<br>i. 500 mm<br>ii. 300 mm<br>iii. 350 mm<br>iv. 600 mm<br>***(Award 2 marks or zero = 2 marks)*** | **2** | | |
| 3. Cut pipe properly, without any visible damage or cracks.<br>i. Cut to accurate measurements.<br>ii. Thread the pipes<br>***(Award 1 mark each or zero)*** | **1**<br>**1** | | |
| 4. Connected fitting securely to pipes. | | | |

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| | | | |
|---|---|---|---|
| i. Tee<br>ii. Gate valve<br>iii. Elbow<br>iv. Back nut<br>***(Award 1 mark for each or zero=4 marks)*** | **1**<br>**1**<br>**1**<br>**1** | | |
| 5. Installed fire booster pump and powered.<br>i. Connect the non-return valve<br>ii. Connect the nipple<br>iii. Connect union<br>***(award 3 marks or zero = 3 marks)*** | <br>**1**<br>**1**<br>**1** | | |
| 6. Positioned water tank.<br>***(Award 2 marks or zero = 2 marks)*** | <br>**2** | | |
| 7. Connected pipes properly to water supply and fire sprinkler<br>***(Award 1 mark x 4 or zero= 4 marks)*** | <br>**4** | | |
| 8. Installed fire sprinklers correctly<br>***(Award 2 marks x 2 or zero = 4 marks)*** | <br>**4** | | |
| 9. Used piping tools and equipment correctly<br>i. Pipe wrench<br>ii. Pipe threading equipment.<br>iii. Pipe cutter.<br>***(Award 1 marks for at least 3 or zero = 3 marks)*** | <br>**1**<br>**1**<br>**1** | | |
| 10. Proper elevated stand<br>***(Award 2 marks or zero = 2 marks)*** | <br>**2** | | |
| **SUB-TOTAL 1** | **28** | | |
| **PRODUCT CHECKLIST** | | | |
| | **Marks allocated** | **Marks obtained** | **Comments** |
| 11. Correct accurate measurements: | **1** | | |

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| | | | |
|---|---|---|---|
| i. 500 mm<br>ii. 300 mm<br>iii. 350 mm<br>iv. 600 mm<br>(±2 mm allowance)<br>***(Award 1 mark each or zero=4 marks)*** | **1**<br>**1**<br>**1** | | |
| 12. Functioning fire sprinkler.<br>***(Award 2 marks x 2 or zero=4 marks)*** | **4** | | |
| 13. water flow from the water tank.<br>***(Award 2 marks or zero= 2 marks)*** | **2** | | |
| 14. Plumpness of pipes<br>***(Award 2 marks or zero=2marks)*** | **2** | | |
| 15. Levelness of pipe<br>***(Award 2 marks or zero=2marks)*** | **2** | | |
| 16. Firmness<br>***(Award 2 marks or zero=2marks)*** | **2** | | |
| 17. Completeness<br>***100% Award 3***<br>***75% Award 2***<br>***50% Award 1***<br>***Below 50 % Award 0*** | **3** | | |
| **SUB-TOTAL 2** | **19** | | |
| **GRAND TOTAL** | **48** | | |

**The candidate was found to be:** ☐ **Competent** ☐ **Not yet competent**
***(Please tick as appropriate)***

***(The candidate is competent if s/he gets at least 50%)***

**Feedback from candidate:**

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| **Feedback to candidate:** | | |
|---|---|---|
| | | |
| **Candidate's signature:** | **Date:** | |
| **Assessor's signature:** | **Date:** | |

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