

Printed Technical And Vocational College

Date: 19.11.2025 11:18 AM

**073105T4PLM**

## **PLUMBING LEVEL 5**

**CON/OS/PL/CR/05/5** Printed By: Technical And Vocational College Date: 19.11.2025

11:18 AM

### **Install Water Storage Systems and Auxiliary Fittings**

**November/December 2025**

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

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### **WRITTEN ASSESSMENT**

**Time: 3 HOURS**

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### **INSTRUCT CANDIDATE**

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1. This paper consists of **TWO** sections: **A** and **B** Printed By: Technical And Vocational College
2. Answer **ALL** questions in section A and **THREE (3)** questions in section B. Date: 19.11.2025 11:18 AM
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a answer booklet Printed By: Technical And Vocational College Date: 19.11.2025 11:18 AM
5. Do not write on the question paper.

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**This paper consists of FOUR (4) printed pages**  
**Candidates should check the question paper to ascertain that all**  
**pages are printed as indicated and that no questions are missing.**

**SECTION A (40 MARKS)**

***Answer ALL the questions in this section.***

1. Plumbing working drawings, technical diagram that provides all the necessary information for a plumber to install a complete plumbing system. List FOUR benefits of using the plumbing working drawings. (4Marks)
2. During installation, a plumber needs to put essential auxiliary structures State FOUR components of a water storage tank. (4Marks)
3. Storage tanks are very essential in every home during rainwater harvesting and distribution. Outline FOUR functions of a water storage tank. (4Marks)
4. When choosing a water storage tank, the material used is a critical consideration. List FOUR materials used to construct water tanks. (4Marks)
5. One form of maintenance is a response to a failure identified by a visual inspection or a test of the equipment. Outline FOUR maintenance practices for water tanks. (4Marks)
6. Water pollution particles pollute water, making it harmful to living organisms and unusable for drinking or agriculture. State FOUR causes of contamination in water tank. (4Marks)
7. Steel tanks come in many different types. Outline FOUR types of steel tanks. (4Marks)
8. Plastic has become a dominant material in modern plumbing for both water supply and drainage systems, unlike traditional metal pipes. State FOUR advantages of using plastic water tanks. (4Marks)
9. Float valve various residential, commercial, and industrial applications to monitor liquid level. Outline FOUR of their functions. (4Marks)
10. Using electronic tank indicators over traditional mechanical indicators is a common practice. State FOUR uses of a level indicator in water tanks. (4Mark)

**SECTION B (60 MARKS)**

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**AEE Questions in This Section**

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11. Preparing a Bill of Quantities for a water storage system is a crucial step before commencement of works.
- State FIVEs of a Bill of Quantities (10Marks)
  - Explain FIVE ways of helping prevent cost overruns. (10Marks)
12. There are number of important factors to consider when desbuilding water storage tanks.
- Describe SIX main factors to consider when designing a water storage tank. (12 Marks)
  - Explain FOUR factors that affect tank size. (8 Marks)
13. A valve is a device that regulates, controls, or directs the flow of a fluid by opening, closing, or partially obstructing fluid flow.
- Describe of valves used in water supply system (10 Marks)
  - Explain FIVE types of plumbing fittings used plumbing works. (10 Marks)
14. A homeowner needs to select a pump to transfer water to his houses to higher elevation or at higher pressure.
- Explain FIVE criteria for Pump Selection for water supply. (10 Marks)
  - Describe TWO advantages on an elevated tank. (4 Marks)
  - Explaies of tests carried out in water supply system (6 Marks)