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073105T4PLM

PLUMBING LEVEL 5

CON/OS/PL/CR/04/5

Install Sanitary Appliances

November/December 2025

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

WRITTEN ASSESSMENT

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3 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of TWO sections: A and B.
2. Answer ALL questions in section A and ANY THREE (3) questions in section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet
5. Do NOT write on the question paper.

This paper consists of four (4) printed pages

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

SECTION A (40 MARKS)

Attempt all questions in this section

1. Wash hand basins come in various types, each designed to suit different functional and aesthetic needs in bathrooms and wash areas. Name FOUR types of wash hand basins (4 Marks)
2. Choosing the correct drawing type is essential for guiding installation and ensuring the correct implementation of project requirements. Name FOUR factors must be considered when selecting a drawing for a project. (4 Marks)
3. Working drawings must be accurately scaled before representation on paper. Give FOUR reasons why it is important to determine the correct scale when preparing a working drawing. (4 Marks)
4. Symbols in drawings represent various components and systems in a simplified and standardized manner. List FOUR reasons why standardized symbols are important in working drawings. (4 Marks)
5. When purchasing sanitary appliances for a building, considerations made can help in selecting the right products. List FOUR factors you will consider when purchasing sanitary appliances for a building. (4 Marks)
6. Estimating materials from drawings is a crucial step on installation of sanitary appliances. Highlight FOUR advantages of estimating materials for a project. (4 Marks)
7. Different sanitary appliances require specific tools and equipment for installation. List FOUR risks associated with incorrect tool usage, and how can they be avoided. (4 Marks)
8. Good housekeeping during and after installation is part of good workmanship practice. Outline FOUR housekeeping practices that a plumber should adhere to. (4 Marks)
9. Using PPE (like gloves, safety glasses, and protective footwear) minimizes risk of injury and ensures compliance with workplace safety rules. Identify FOUR of PPEs required when fixing sanitary appliances. (4 Marks)
10. Commissioning involves handing over the completed and fully functional work to the client or supervisor. Name FOUR documents typically involved in commissioning plumbing work. (4 Marks)

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SECTION B (60 MARKS)

Attempt ANY three questions in this section

11. If issues are found during testing, they must be corrected properly using accepted techniques and tools to avoid long-term problems.

a) Explain THREE common faults that can arise during sanitary appliance testing, including the methods used to correct them. (6 Marks)

b) Describe the

FIVE steps you would take to fix a leaking tap after installation.

(10 arks)

c)Outline FOUR checks that should be performed before testing a sanitary appliance.

(4 Marks)

12. Ceramic materials are commonly used to make sanitary appliances.

a) Explain FIVE precautions taken when installing the sanitary appliances.(10 Marks)

b) Describe FIVE advantages of using ceramic materials over plastic in making sanitary appliances. (10 Marks)

13.

a) Create an isometric sketch of a basic sink installation, including cold/hot water supply and waste outlet. (2 Marks)

b) Explain FIVE fittings required to complete the installation giving each of their functions. (10 Marks)

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c) List EIGHT steps how to assemble the sanitary appliance shown, step by step, ensuring safety and proper fitting. (8 marks)

14.

a) Describe FOUR reasons why correct identification of sanitary symbols is important when preparing and reading working drawings. (8 Marks)

b) Outline SIX steps a plumber should follow when preparing a simple working drawing from job specifications. (6 Marks)

c) Explain THREE benefits of preparing an accurate cost estimate for sanitary appliance installation. (6 Marks)