

073203T4PLM

PLUMBING LEVEL 3

CON/OS/PL/CR/02/3/A

Install Sanitary Appliances

March/April 2025



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

WRITTEN ASSESSMENT

Time 2 hours

INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections **A** and **B**.
2. Attempt **ALL** the questions in each section.
3. Marks for each question are indicated in the brackets.
4. You are provided with a separate answer booklet to answer the questions.
5. Do not write on the question paper.

This paper consists of FIVE (5) 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 (20 MARKS)

Attempt ALL the questions in this section. Each question carries one mark.

Indicate whether true or false

1. A bidet should always be positioned next to a toilet to facilitate ease of use.
A. True.
B. False.
2. In plumbing drawings, the direction of water flow is typically indicated with arrows to ensure proper installation of the system.
A. True.
B. False
3. Installing sanitary appliances without ensuring it is level can lead to operational issues or damage.
A. True.
B. False.
4. For plumbing installation, a 10% allowance for wastage is commonly added to material estimate during quantification.
A. True.
B. False.
5. The type of fittings, such as elbows and T-joints, must be accurately calculated to ensure a proper plumbing layout.
A. True.
B. False.

Match the following items to the correct description:

Item		Description
6.	Flush valve	i. A device used to store waste in a sanitary manner, often connected to plumbing
7.	Toilet bowl	ii. A device used to release water to clean and flush the contents of a toilet bowl
8.	Overflow pipe	iii. A basin used for washing hands and face, often installed in bathrooms

9.	Wash hand basin	iv.	A hose or pipe that connects piping to sanitary appliance, allowing movement.
10.	Flexible water connector	v.	A pipe that prevents an appliance from spilling over by redirecting excess water

Choose the correct answer.

11. Which of the following is NOT a sanitary appliance?

- A. Washbasin.
- B. Bathtub.
- C. Bio digester.
- D. Shower.

12. What is the primary purpose of a bidet in a bathroom?

- A. Storing toiletries.
- B. Cleansing the body after using the toilet.
- C. Washing clothes.
- D. Washing hands.

13. Which sanitary fixture is designed specifically for handwashing

- A. Bathtub.
- B. Washbasin.
- C. Sink.
- D. Urinal.

14. What is the purpose of a float valve in a cistern?

- A. To stop the flow of excess water into the cistern.
- B. To prevent foul smell from escaping the drain.
- C. To maintain water pressure.
- D. To store water for cleaning.

15. Which sanitary appliance is best suited for commercial areas to manage large-scale usage?

- A. Bidet.
- B. Urinal trough.
- C. Urinal bowl.
- D. Freestanding bathtub.

16. _____ is a tool used to cut pipe lengths required for installing overhead shower.
- A. Pipe cutter.
 - B. Tape measure.
 - C. Plunger.
 - D. Spirit level
17. What is the most common material used for plumbing pipes in modern sanitary installation?
- A. PVC
 - B. Copper.
 - C. Galvanized steel.
 - D. Cast iron.
18. Which tool is typically used to measure pipe lengths required for sanitary installations?
- A. Pipe cutter.
 - B. Tape measure.
 - C. Plunger.
 - D. Spirit level.
19. Why is it important to quantify the number of fittings for a plumbing system?
- A. To ensure proper water pressure.
 - B. To ensure the system layout can be installed correctly.
 - C. To reduce the total cost of installation.
 - D. To maintain constant pipe length.
20. What is the primary function of a vent pipe in sanitary system?
- A. To allow air to escape from the drainage system.
 - B. To trap debris in pipes.
 - C. To prevent foul smell.
 - D. To drain waste water.

SECTION B (30 MARKS)***Attempt ALL the questions in this section***

21. A sealant is normally placed around the base of a water closet during installation. State the function of the sealant. (1 Mark)
22. Outline TWO reasons of flushing out a water pipe before connecting it to a sanitary appliance. (2 Marks)
23. State TWO common types of flushing cisterns used in domestic toilets. (2 Marks)
24. Give TWO reasons why a urinal should be installed with proper ventilation. (4 Marks)
25. Outline ONE function of a water closet. (2 Marks)
26. What is the function of a flushing valve in a cistern? (2 Marks)
27. Identify FOUR faults caused by poor installation of the bath tub. (4 Marks)
28. Name THREE characteristics of materials used to manufacture a bidet. (3 Marks)
29. Outline TWO functions of a trap in a water closet? (2 Marks)
30. Name TWO materials used for the manufacture of a wash-hand basin. (2 Marks)
31. State the standard height for installing a single bowl kitchen sink. (2 Marks)
32. As a plumber, how do you test the overflow drain in a bathtub before commissioning? (2 Marks)
33. Outline TWO main types of a water closet. (2 Marks)