

073203T4PLM

PLUMBING LEVEL 4

CON/OS/PL/CR/04/4/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
1. Answer ALL the questions in each section.
2. Marks for each question are indicated in the brackets.
3. You are provided with a separate answer booklet to answer the questions
4. Do not write in this question paper

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 (10 MARKS)

Answer all questions in this section. Each question carries one mark

1. Define the term bathroom fixture as used in sanitary appliance
 - A. any system that allows the movement of fluids,
 - B. It is range of permanently connected plumbing fixtures
 - C. provide all pertinent information on the design of the plumbing system for a project,
 - D. A well-planned diagram is essential for any remodeling project that involves major plumbing work
2. _____ is the standard size of a residential toilet drain pipe
 - A. 1 inch
 - B. 2 inches
 - C. 3 inches
 - D. 4 inches
3. Where is title block placed in a A3 drawing paper.
 - A. Bottom of the page
 - B. Top of the page
 - C. Left side of the page
 - D. Right side of the page
4. State the purpose of a bottle-trap in a sanitary installation system.
 - A. To increase water pressure
 - B. To prevent sewer gases from entering the building
 - C. To regulate water temperature
 - D. To support the weight of pipes
5. _____ Is the common type of pipe used in sanitary work.
 - A. PVC
 - B. HDPE
 - C. UPVC
 - D. CAST IRON.

6. _____ is NOT a method for joining plastic pipes.

- A. Blistering
- B. Compression fitting
- C. soldering
- D. fusion welding

7. Name the fitting shown below.



- A. Equal tee
- B. Reducing tee
- C. Cross tee
- D. Cap

8. _____ s used to remove sharp burrs and irregularities created when cutting the G.1

- A. Hacksaw
- B. Pipe cutter
- C. file
- D. pipe reamer

9. In a plumbing vent system, what is the purpose of an air admittance valve.

- A. To release excess water pressure
- B. To allow air into the drain system
- C. To prevent sewer gases from entering the building
- D. To regulate water temperature

10. Which type of toilet is known for its water-saving features.

- A. Gravity flush toilet
- B. Pressure-assisted toilet
- C. Dual-flush toilet
- D. Flush meter toilet

SECTION B (40 MARKS)

Answer ALL questions in this section.

11. State marking tools used in sanitary works. (2marks)
12. Explain FOUR Installation factors to consider for discharge pipework. (4 marks)
13. State TWO test conducted after installation of sanitary appliances. (2marks)
14. Identify FOUR PPES commonly wore by plumber during sanitary installation works (4 marks)
15. List the steps for installing a wash hand basin in a residential bathroom. (4marks)
16. List THREE types of WC used in sanitary. (3 Marks)
17. Explain the purpose of a clean-out in a sanitary drainage system. (3marks)
18. Name FOUR waterproofing material used to correct a leaking elbow (4marks)
19. State FOUR factors that should be considered when determining the location for a bathtub installation. (4 marks)
20. Sketch symbols used for the following fitting used in appliances (4 marks)
 - i. Gate valve
 - ii. 45° elbow
 - iii. Cap
 - iv. Reducing tee
21. Give THREE tools and equipment used in installation of a bath. (3 marks)
22. State FOUR methods of maintaining sanitary tools and equipment. (4 marks)