

073204T4PLM

PLUMBER LEVEL 4

CON/OS/PL/CR/01/4/A

INSTALL WATER PIPES AND ANCILLARY APPLIANCES

NOV /DEC 2023



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

WRITTEN ASSESSMENT

CANDIDATES TOOL

Time: 2 HOURS

INSTRUCTION TO CANDINDATE

- i. This assessment has two sections (A and B)
- ii. You are provided with a separate answer booklet.
- iii. Candidate should not write on the question paper
- iv. Marks for each question are indicated in the brackets ()

This paper consists of SIX (6) printed pages

SECTION A: (10 Marks)

These only serves as a guide to expected responses

1. Why are threads being formed in a GI pipe? (1 Mark)
 - A. To avoid rusting of the pipe
 - B. To increase aesthetic
 - C. To avoid leakage of the pipe
 - D. To join pipe of the same diameter
2. What is the purpose of using pipe clips during installation of the water system in a building? (1 Mark)
 - A. To connect PVC pipe with PPR pipe
 - B. To allow easy flow of water within the system
 - C. To seal joint in a pipe.
 - D. To hold pipe in position.
3. Select the method which is not used in joining **two** pipes with equal diameter. (1 Mark)
 - A. Welding
 - B. Tying
 - C. Adhesives
 - D. Electrofusion
4. Which one of the following is not a pipe fitting? (1 Mark)
 - A. Elbow
 - B. Union
 - C. Cistern
 - D. Gate valve
5. The following are standard sizes of a pipe, which one is not? (1 Mark)
 - A. $\frac{1}{7}$
 - B. $\frac{1}{2}$
 - C. $\frac{3}{4}$
 - D. 1

6. Identify the reason why a valve is needed in a pipe during installation of water for domestic use (1 Mark)
- A. To ensure the two pipes are well fitted
 - B. To reduce the length of the pipe
 - C. To control follow of water
 - D. To increase the strength of the pipe
7. Which one of the following is not type of a scale? (1 Mark)
- A. Perpendicular scale
 - B. Reducing scale
 - C. Increasing scale
 - D. Full length scale
8. The following are tests used to check leakage in a pipe, which one is not? (1 Mark)
- A. Water test
 - B. Paraffin test
 - C. Smoke test
 - D. Air test
9. Which one of the following is a type of a thread? (1 Mark)
- A. Male thread
 - B. Soft thread
 - C. Hard thread
 - D. Plumbing thread
10. The following are different materials used in making a pipe except (1 Mark)
- A. Plastic
 - B. Concrete
 - C. Metal
 - D. Wood

SECTION B: (40 Marks)

Note to assessor: These are suggested answers to act as guidelines

11. Give **four** types of pipes used in installation of water. (4 Marks)
12. With aid of a sketch, show the symbols following in plumbing. (9 Marks)

13. Define the term Isometric drawing (2 Marks)
14. List **five** Personal Protective Equipment that a plumber should have in a plumbing workshop (5Marks)
15. State the procedure of heating and bending of a pvc pipe 1000mm long. (6Marks)
16. Outline **two** Faults that are found in pipe work (2Marks)
17. Give **three** advantages of using PVC pipes over GI pipes? (3Marks)
18. Explain **two** methods of bending a pipe. (4Marks)
19. Highlight **three** ways of maintaining tools and equipment in a plumbing workshop (3Marks)
20. Convert the following into mm;
 - a) 200cm (2 Marks)

 - b) 65m (2 Marks)