

073204T4PLM

PLUMBER LEVEL 3

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

Install Pipes in Buildings

July/Aug 2023



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

WRITTEN ASSESSMENT

Time: 2 hours

INSTRUCTIONS TO CANDIDATES

1. This paper has two sections **A** and **B**. Attempt questions in each section as per instructions given in the section.
2. You are provided with a separate answer booklet.
3. Marks for each question are indicated in the brackets.
4. 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)

Each question carries 1 mark. Choose the correct answer and write it in the answer booklet provided

TRUE/ FALSE QUESTIONS

1. Incorrect use of tools can result in damage of pipes or fittings.
(TRUE /FALSE)
2. Interpreting the working drawing correctly can lead to incorrect pipe connection.
(TRUE/FALSE)
3. Poorly executed pipework may lead to leaks or other issues.
(TRUE/FALSE)
4. Fitting pipes according to drawing specifications is a fundamental requirement in plumbing.
(TRUE/FALSE)
5. Accurate quantification of supplies and materials is important for successful plumbing.
(TRUE / FALSE)
6. Producing functional pipework is a primary objective in plumbing.
(TRUE/FALSE)
7. Deviating from the drawing specifications can result in faulty connections.
(TRUE /FALSE)
8. Precise calculation of materials ensures cost effective plumbing projects
(TRUE /FALSE)
9. Using improper tools and equipment is acceptable as long as the task gets completed
(TRUE /FALSE)
10. Using piping tools correctly ensures the tools do not get damaged.
(TRUE/FALSE)

MULTIPLE CHOICE QUESTIONS

11. Which of the following is a plumbing tool?
- A. Pipe wrench
 - B. Trowel
 - C. Straight edge
 - D. Wood float
12. Which of the following is not related to plumbing
- A. Plastering of manholes
 - B. Cladding in walls
 - C. Taking invert levels to drains
 - D. Placing rain water goods
13. What is the function of a blow lamp
- A. Plumbing of pipes
 - B. Heating of pipes
 - C. Bending of pipes
 - D. Fixing valves
14. What is the function of a die stock as used in plumbing?
- A. Cutting pipes
 - B. Making threads on pipes
 - C. Bending pipes
 - D. Tightening joints
15. Which of the following is used in setting horizontal pipes
- A. Spirit level
 - B. Soldering gun
 - C. Die stock
 - D. Gate valve
16. What is the function of a union in pipework?
- A. Connecting two pipes
 - B. Cutting pipes
 - C. Bending pipes
 - D. Heating pipes

17. Which of the following is used for setting vertical pipes
- A. Plumb bob
 - B. Putty knife
 - C. Level square
 - D. Tee square
18. One fitting is not used for joining pipes. Which one is it?
- A. Reducing tee
 - B. Reducing bush
 - C. Female socket
 - D. Plug
19. Which pipe size is suitable for a main sewer line
- A. 1"
 - B. 2"
 - C. 3"
 - D. 6"
20. What is the function of a non-return valve
- A. Allow steam flow in one direction
 - B. Allow steam flow in both direction
 - C. Prevent flow of obstacles that would cause blockage
 - D. Prevent loss of pressure in pipes

SECTION B (30 MARKS)

Answer all questions in this section

21. As a plumber, name TWO tools you can use while cutting a GI pipe. (2 Marks)
22. It's important to observe precautions while operating plumbing equipment. List FOUR precautions to observe while using a hydraulic pipe bender in plumbing? (4 Marks)
23. Assuming that you want to bend a 19mm (internal diameter) pipe through 90° on one end. Outline how you would mark the 800mm bend from the end. (2 Marks)
24. Name TWO tools used for fastening fittings in plumbing (2 Marks)
25. Sketch the following plumbing hand tools: (8 Marks)
- a) A Pipe wrenches
 - b) A hack saw
 - c) Framing square
 - d) Pliers
26. Briefly outline the procedure of using a hacksaw to cut a 600mm GI pipe into three equal lengths (3 Marks)
27. State TWO ways of maintaining the tools and equipment used in a plumbing workshop. (2 Marks)
28. Name TWO substances that are applied to GI pipes to ensure threads are well cut. (2 Marks)
29. Highlight TWO advantages of using PVC pipes over GI pipes. (2 Marks)
30. Assume that one of your classmates is injured during a practical in the plumbing workshop, which procedure would you follow to handle the situation? (3 Marks)