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073105T4PLM

PLUMBING LEVEL 5

CON/OS/PL/CR/04/5/A

Install Sanitary Appliance

Nov/Dec 2024

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

WRITTEN ASSESSMENT

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Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on this question paper.

This paper consists of THREE (3) 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 (40 MARKS)

Answer ALL the questions in this section.

1. Troubleshooting is a way of contacting problem in the system after installation. Highlight FOUR common faults associated with installation of sanitary appliances**.** (4 Marks)
2. Safety and health practices are observed based on OSHA. Outline TWO safety precautions to be taken and their relevance during the installation and maintenance of sanitary appliances. (4 Marks)
3. Trap in sanitary are majorly used for trapping gases not to penetrate in the building according to the building regulations. Highlight any FIVE types of traps used in drainage to prevent sewer gases from entering the building. (5 Marks)
4. Sanitary appliances are mounted based on best practices in the building. Name any FOUR types of sinks. (4 Marks)
5. Tools and equipment are used on the practices on sanitary appliances. Explain why claw hammer is not allowed while installing. (3 Marks)
6. Appliances positioning is determined based on working drawing while doing sanitary fixing. Outline FIVE reasons why the water closet, kitchen sinks and wash hand basin are connected to the manhole's chambers. (5 Marks)
7. Measurement of plumbing works is critical when planning to execute plumbing projects. Give THREE reasons for doing measurement before commencement of installation of sanitary appliances. (3 Marks)
8. Safety and health practices are a great consideration when installing sanitary appliances on public and private households. Give reasons why foot squat is normally installed on public than water closet. (3 Marks)
9. Gravity flow is used to check the speed of liquids and slurry in the system. Explain why the sanitary appliances pipes are not steep but slightly zero level while installing (5 Marks)
10. Urinals are commonly found in public or commercial restrooms, such as those in schools, offices, malls, and other public places. Outline any FOUR types of urinals. (4 Marks)

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SECTION B (60 MARKS)

Answer Any THREE Questions in This Section

11. Testing and commissioning on working of sanitary appliances is done after all the works of installation.
    a) Explain the steps involved in troubleshooting a clogged Asian toilet. (10Marks)
    b) Discuss the common causes of clogging in Asian toilets and provide a potential solution. (10Marks)
12. Drawings of sanitary appliances are designed and selected based on the job and specification.
    a) Explain how sanitary appliances can be designed and installed to comply with accessibility standards and accommodate individuals with disabilities. (10Marks)
    b) Compare and contrasts reasons as to why a plumber should consider plastics cisterns on sanitary appliances over asbestos. (10Marks)
13. Materials and supplies required are measured and estimated based on working drawings and specifications.
    a) Provide a sample summary of estimated materials of sanitary appliances, include the following: quantity, materials and prices. (10Marks)
    b) Describe FIVE various types of materials used for sanitary appliances. (10Marks)
14. A flushing cistern is a sanitary appliance that is installed to the water closet or a urinal Regular maintenance helps prevent common issues such as leaks, weak flushing, and water wastage.
    a) Explain any FIVE components of a flushing cistern and how they are designed to operate. (10Marks)
    b) Discuss FIVE causes of leaks that are likely to occur in a flushing cistern (10Marks)

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