

073106T4QSV

Quantity Surveying Level 6

ENG/OS/QS/CC/04/6/A

Apply Workshop Technology Practices

July/ August 2024



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

WRITTEN ASSESSMENT

TIME: 3 HOURS

Instructions to Candidate

1. This paper has two sections **A** and **B**
2. Attempt questions in each section as per instructions given in the section.
3. You are provided with a separate answer booklet.
4. Marks for each question are indicated in the brackets.
5. Do not write on the 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.**

SECTION A (40 MARKS)

Answer all questions in this section

1. Safety precautions should always be observed while working in any workshops. State FOUR precautions observed in a plumbing workshop. (4 marks)
2. Inspection and calibration of measuring tools are important operations before marking out dimensions on workpieces. State and explain why these operations are necessary. (2 marks)
3. There are various tools used in a masonry workshop. Identify SIX hand tools commonly used in workshop processes. (3 marks)
4. It is mandatory to center-punch hole centers before drilling works begins. Explain the reasons for doing so. (2 marks)
5. Explain the significance of facing workpieces in lathe operations. (2 marks)
6. Having a good finishing surface provide a good quality and durable outputs in the carpentry. Outline FOUR importance of surface finishing in workshop processes. (4 marks)
7. Good housekeeping improves the working space. Outline THREE key steps in performing housekeeping in a workshop environment. (3 marks)
8. Having an operation plan is important for any workshop processes. Highlight THREE advantages of having an operation plan. (3 marks)
9. Inspecting finished work for accuracy and quality is always necessary and important in carpentry works. explain the importance of inspecting. (2 marks)
10. Maintenance of tools and equipment's is paramount. State FOUR methods for tools and equipment maintenance in a plumbing workshop. (4 marks)
11. It is important to have maintenance records for machine and tools. Identify THREE reasons why it is necessary to report identified faults on machines and tools (3 marks)
12. National Environment Management Authority of Kenya (NEMA) recommend disposal of different types of waste separately. Identify THREE reasons why it is essential to segregate and dispose of waste according to disposal guidelines in workshop environments. (3 marks)
13. lubrication in the maintenance of carpentry machines and tools is very important. Highlight FIVE roles it plays. (5 marks)

SECTION B (60 MARKS)

Answer any THREE questions in this section

14. a) A Quantity surveyor student from ‘Lily Technical college’ was to construct an animal feeding trough with dove tail joints and among the tools to be used while performing the task are hand tools in order to have good quality joints. Describe in detail the steps involved in using hand tools cutting and filing Parts. (10 marks)
- b) Before performing any water installation in a building using G.I pipes it is important that one understands the process of cutting threads on pipes. Explain the process of cutting threads on a GI pipe using tap and die. (10 marks)
15. a) For a product to compete in the market, appearance is important. Discuss FIVE surface finishing methods in workshop processes. (10 marks)
- b) Having a conducive working environment improves the output. Outline the importance of housekeeping in a workshop environment. (10 marks)
16. Inspecting finished work is a critical step in any machining process to ensure that the final product meets the required specification.
- a) Describe any FIVE procedures for inspecting finished work for accuracy and quality (10 marks)
- b) State and explain the role of any FIVE precision measuring tools used for inspecting finished work. (10 marks)
17. You intend to make holes in a metal workpiece to assist you in installation of electrical services in a building using a drill:
- a) Explain in detail the procedure involved (14 marks)
- b) Highlight the safety measures to observe during the undertaking. (6 marks)