

073206T4BLD

BUILDING TECNICIAN LEVEL 6

CON/OS/BUT/CR/02/6/A

EXECUTE SITE PRELIMINARY WORKS

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. 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 THREE (3) Printed Pages.

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no pages are missing.

SECTION A: (40 MARKS)

Attempt all questions in this section.

1. Briefly expound on the meaning and acronym P.P. E. (2 marks)
2. Temporary facilities are essential for the smooth operation and management of construction activities. List two examples of temporary facilities in a construction site. (2 marks)
3. Site clearance is a critical initial step and requirement in the construction process. Highlight four importance of site clearance in a construction site. (4 marks)
4. PPE minimize the risk of injury and ensure compliance with safety regulations. Cite four examples of P.P. Es used during site preliminary works. (4 marks)
5. Providing welfare items for workers on a construction site is vital for promoting their well-being and productivity. Which five welfare items can be provided for workers on a construction site? (5 marks)
6. Minimizing environmental impacts during site preliminary works is essential for sustainable construction practices. Explain three actions one can take to minimize environmental impacts during site preliminary works. (6 marks)
7. Demolition during site clearance requires specialized equipment to safely and efficiently remove existing structures. Give three equipment used during demolition during site clearance. (3 marks)
8. A signboard provides essential information to the public and stakeholders. Mention any four items displayed on a signboard for a proposed construction site in Kenya. (4 marks)
9. Fencing and hoarding are used to secure construction sites. Distinguish between fencing and hoarding as used in site preliminary works. (4 marks)
10. A pick axe is a versatile tool commonly used in construction works. Sketch a pick axe. (3 marks)
11. Fencing is an effective measure for enhancing site security and controlling access. Write down three types of fencing materials. (3 marks)

SECTION B: (60 MARKS)

This section consists of four (4) questions.

*Answer any **THREE** questions. All questions carry equal marks.*

12. An effective site layout is crucial for ensuring the smooth progression of a construction project.
- a. List eight components of a site layout. (8 marks)
 - b. Explain six objectives of a good construction site layout. (12 marks)
13. In construction, demolition is a critical process involving the systematic dismantling of buildings and structures to make way for new developments or to clear hazardous sites.
- a. Describe five factors which influence the choice of demolition method to use in a construction site. (10 marks)
 - b. Identify five roles of a safety officer in an active demolition site. (10 marks)
14. Proper fencing and hoarding are essential components of construction site.
- a. Advise a client on any four types of fences to use in home setting. (8 marks)
 - b. Outline three importance of fencing. (6 marks)
 - c. Explain with the aid of a well labelled sketch fan hoarding. (6 marks)
15. Effective site clearance is a critical first step in any construction project.
- a. Explain the following terms as used in site clearance. (6 marks)
 - i. Grubbing
 - ii. Debris
 - iii. Site boundary
 - b. Discuss any four activities which precede the actual building construction. (8 marks)
 - c. Explain three reasons for the removal of vegetable top soil during site clearance. (6 marks)

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