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073206T4CEN

CIVIL ENGINEERING TECHNICIAN LEVEL 6

CON/OS/CET/CR/01/6A

CONDUCT MATERIAL TESTING

JULY/AUGUST 2023

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

PRACTICAL ASSESSMENT

INSTRUCTIONS TO CANDIDATE

You have been issued this paper **1 hour** before the start time of examinations. During this period, you should:

1. Read the instructions
2. Select equipment and materials needed.
3. Report any missing information to the examiner.

You have been allocated **5 hours** to perform the practical assessment.

This paper consists of TWO (2) printed pages.

Candidates should check the question paper to ascertain that all pages are printed as indicated.

1. **TASK**

You are required to

a. Batch the aggregates in the required portions,
b. Undertake dry mixing as per standard procedures,
c. Mix as using the required equipment as per the standard procedures,
d. Cast three concrete cubes of class 20,
e. Prepare a comprehensive summary of the tools, equipment materials and procedure used in the task.

2. **REQUIREMENT**

a. Materials.

You have been allocated the following materials.

Item no.	**Description**	**Size**	**Quantity**
1.	Cube molds	15cm x 15cm x15cm	3
2.	Tamping rods	Standard	1
3.	Ordinary Portland Cement	kg	25kg
4.	Coarse aggregate	Wheelbarrow	1
5.	Fine aggregate	Wheelbarrow	½

b. Assorted hand tools and equipment.