



Machakos University College

(A Constituent College of Kenyatta University)

University Examinations 2013/2014

SCHOOL OF ENGINEERING

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

Certificate in Masonry Trade Project

Date: May/June

Time: 40 Hours

Instructions

- This project is to be undertaken by Candidates as part of the examination requirement for the Masonry Craft Certificate
- Candidates are required to study and carry out this project which should be ready for assessment two weeks before the start of the KNEC Practical Examination.

A. GENERAL INFORMATION

This project consists of TWO Sections. Section A carries 40% and section B 60% of the trade project.

B. PROJECT DESCRIPTION

The following drawings shows outlines of plans and elevations of a composite masonry wall; Five courses high, comprising the following features

- An attached block pier
- A 980X 730 mm bark weave infill panel protruding 80mm beyond the wall and a camber arch bridging the opening.
- A 230MM thick wall on the left and comprising alternate courses of block work and brickwork
- A 15MM platter on internal face of the wall finished a wooden float finish.
- A 20 mm thick floor screed
- A Brick on edge coping projecting 40mm beyond the face of the wall
- 4 N 150 X 150 clay tiles on the floor screed
- 8 N 150 X 150 ceramic wall tiles as shown on the drawing
- All external joints to be finished with a key joint finish.

TASK

SECTION A (40 MARKS)

With reference to the given project descriptions and drawings carry out the following.

1. Prepare detailed working drawings for the project
2. Estimate the quantities of the materials required for the project.
3. Estimate the cost of the project including both labor and materials
4. Prepare a programme of activities for the project

SECTION B (60 MARKS)

Set out and construct the wall to its entirety

PRESENTATION

All notes, Calculations and working drawings for section 'A' of the project should be made on A4 papers numbered in sequence and bound together in a folder bearing the candidates name, Index Number, Project Number, Project Title and Institution's Name.

Note

Credit will be given for clarity, accuracy and neatness in the assessment of Section A of this project.