1301/313 1304/313 1305/313 SITE AND WORKSHOP MANAGEMENT Oct./Nov. 2021

Time: 3 hours



## THE KENYA NATIONAL EXAMINATIONS COUNCIL

## CRAFT CERTIFICATE IN CARPENTRY AND JOINERY CRAFT CERTIFICATE IN MASONRY CRAFT CERTIFICATE IN PLUMBING

SITE AND WORKSHOP MANAGEMENT

3 hours

## INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:
Answer booklet;
Scientific calculator;
This paper consists of EIGHT questions.
Answer FIVE questions.
All questions carry equal marks.
Maximum marks for each part of a question are as indicated.
Candidates should answer the questions in English.

This paper consists of 4 printed pages.

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

1.	(a)	List eight ways of achieving healthy environment in a workshop.	
			(4 marks)
	(b)	State:	
		(i) six factors to be considered when planning for a site layout plan;	
		(ii) four items to include on a site layout plan.	(10 marks)
	(c)	State four Kenya building code requirements for application to construct to	mporary
		housing on site.	(4 marks)
	(d)	List any four items considered as preliminary on a construction site.	(2 1)
			(2 marks)
2.	(a)	State:	
		(i) four duties of a supplier;	
		(ii) six considerations when selecting a supplier.	(10 marks)
	(b)	Explain the following documents used in materials procurement:	
		(i) advice note; (ii) requisition;	
		(iii) delivery note.	
		(iii) derivery note.	(6 marks)
	(c)	State four ways of reducing material wastage on site.	(4 marks)
3.	(a)	Explain the importance of meetings in an organization.	(A 1.)
			(2 marks)
	(b)	(i) Explain the term 'Agenda' in a meeting.	
		(ii) Outline the composition of a meeting.	(8 marks)
	(c)	State six factors to consider before purchasing co	
	(0)	State six factors to consider before purchasing an office equipment.	(6 marks)
	(d)	State four barriers of communication in an organisation.	(4 marks)
4	(a)	State five reasons for plant maintenance.	
1.	(4)	State IIVE leasons for plant maintenance.	(5 marks)
	(b)	Explain the following maintenance plans:	
		(i) routine;	
		(ii) overhaul;	
		(iii) preventive.	(6 marks)
	(a)	State from 1	(Samuello)
	(c)	State four advantages of hiring plant.	(4 marks)
	(d)	Sketch and label a 'backactor'.	(5 marks)
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5.	(a)	With the aid of sketches, differentiate between direct and lateral relationship organization.	s in an (6 marks)
	(b)	Explain the following qualities of a good leader:	
		(i) self confidence; (ii) respect; (iii) technical skill; (iv) tact.	
		(17) tavi.	(8 marks)
	(c)	State six features of a sound incentive scheme.	(6 marks)
6.	(a)	List four contract documents.	(2 marks)
	(b)	Explain the following types of contracts:	
		<ul> <li>(i) serial contract;</li> <li>(ii) cost reimbursement contract;</li> <li>(iii) package deal;</li> <li>(iv) labour only contracts.</li> </ul>	(8 marks)
	(c)	Explain the following tendering methods:	
		(i) selective tendering;	
		(ii) negotiated tendering.	(6 marks)
	(d)	Differentiate between a tender and a contract.	(4 marks)
7.	(a)	State eight items considered in site investigation.	(8 marks)
	(b)	Explain the following as used in pre-tender planning, giving tabulated examp	oles:
		(i) method statement; (ii) plant schedule.	(12 marks)

8. (a) State five advantages of critical path over bar chart.

(5 marks)

- (b) Table 1 shows activities and duration in weeks of a work programme:
  - (i) draw the network diagram showing the critical path;
  - (ii) determine the earliest and latest starting times.

(15 marks)

Table 1

Activity	<b>Duration in weeks</b>
1 - 2	6
1 - 4	7
2-3	26
3 - 4	3
4-5	3
5 - 6	12
6-7	1
6-8	2
7-9	3
8-9	4
9 - 10	4

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