1301/313 1304/313 1305/313 SITE AND WORKSHOP MANAGEMENT June/July 2017 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

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.

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1.	(a)	State:			
		(i)	six safety rules to be observed in a workshop.		
		(ii)	three requirements of a good workshop layout.	(9 marks)	
	(b)	List t	two essential services to a workshop.	(1 mark)	
	(c)	Outli	ne five factors to be considered when selecting an interprenual	workshop site. (10 marks)	
2.	(a)	Expla	ain the following procurement documents:		
		(i)	advice note;		
		(ii)	delivery note;		
		(iii)	invoice.	VA	
				(9 marks)	
	(b)	State	five items to consider in analysis of quotations for the supply of	f materials. (5 marks)	
	(c)	Outli	ne the storage of the following materials on site:		
		(i)	roofing tiles;		
		(ii)	door locks;		
		(iii)	cement bags:		
				(6 marks)	
3.	(a)	State	six factors to consider when buying an equipment.	(6 marks)	
	(b)	Explain the following types of maintenance in a workshop:			
		(i)	preventive maintenance;		
		(ii)	plant overhaul.		
				. (6 marks)	
	(c)	Expla	ain the purpose of an inventory in a workshop.	(2 marks)	
	(d)	Outli	ne three reasons for keeping stock.	(6 marks)	

4.	(a)	Outli	ne three roles of the following parties in a contract:	
		(i)	Architect;	
		(ii)	Quantity surveyor;	
		(iii)	National construction authority;	
		(iv)	Clerk of works.	
				(12 marks)
	(b)	Expla	in the following documents used in a contract:	Tella
		(i)	specification;	
		(ii)		(12 marks) (8 marks) (6 marks) (12 marks) (12 marks) (12 marks)
		(iii)	bills of quantities; form of tender; conditions of contract.	
		(iv)	conditions of contract.	
				(8 marks)
5.	(a)	Expla	in the following:	
		(i)	open tendering;	
		(ii)	selective tendering.	
				(6 marks)
	(b)	Diffe	rentiate between an estimate and a tender.	(4 marks)
	(c)	Highl	light where the following contracts are commonly used:	
		(i)	cost reimbursement contracts;	
		(ii)	target cost contract;	
		(iii)	continuity contracts;	
		(iv)	term contracts;	
		(v)	design and build contracts.	
				(10 marks)
6.	(a)	Expli	ain the term 'span of control' as used in organisational structures.	(2 marks)
	(b)	With	aid of a sketch, explain the following:	
		(i)	lateral relationship;	
		(ii)	direct relationship;	
		(iii)	functional relationship;	
		(iv)	mutual relationship.	
		100000		(12 marks)
	(c)	Outli	ne six items to consider when disciplining a worker.	(6 marks)
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7. (a) Outline the four factors to be considered when passing information to workers.

(8 marks)

(b) State the seven items that may be entered into a site diary. (7 marks)

(c) State the five requirements of filing used in an office. (5 marks)

(a) State the six characteristics of a good programme. (6 marks)

(b) State four advantages of critical path over bar-chart. (4 marks)

(c) Using the data in table 1, prepare a activity analysis sheet to determine:

(i) the earliest start time;

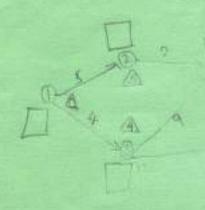
(ii) the latest start time;

(iii) the critical path.

(10 marks)

Table 1

Activity	Duration
1-2	5
1-3	4
2-4	2
3-4	9
3-5	5
4-5	3



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