1301/313 1304/313 1305/313 SITE AND WORKSHOP MANAGEMENT June/ July 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.
Answer FIVE of the following EIGHT 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 3 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)	State four health regulations governing workshop designs.	(4 marks)			
	(b)	Outline four essential services provided for a workshop.	(6 marks)			
	(c)	Explain five factors considered in the workshop design. White factors considered in the workshop design. Market Survey Frecionly Frecionly	(10 marks)			
2.	(a)	Outline four categories of material wastage.	(6 marks)			
	(b)	Explain four measures taken to minimize insecurity of materials on a site.	(8 marks)			
	(c)	Explain three sources of capital finance for purchasing machinery.	(6 marks)			
345	(a)	State four benefits of inventory columns in store keeping.	(4 marks)			
	(6)	Outline four methods of motivating employees.	(6 marks)			
	(6)	Explain five advantages of trade unions in work environment.	(10 marks)			
4.	(a)	State five roles of each of the following parties in occupational health and sa	nfety:			
		(i) employees;				
		(ii) employers.	(10 marks)			
	(b)	Explain two types of maintenance for equipment.	(4 marks)			
	(e)	Explain three reasons for providing preliminary items on a construction site	Will Date to			
		- Security harding	(6 marks)			
5.	(a)	State four reasons for maintaining equipment.	(4 marks)			
	(b)	(i) Explain the term 'serial tendering'.				
		(ii) State four advantages of b(i) above.	(6 marks)			
	(c)	Explain five considerations when designing a site layout for a workshop con	(10 marks)			
6.	(a)	State six roles of a clerk of works in a construction project.	(6 marks)			
	(b)	Differentiate between the following types of contracts:				
		(i) labour only and target cost;				
		(ii) cost reimbursement and package deal.	(8 marks)			
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(e) Explain three systems of filing.

(6 marks)

7. (a) State six reasons for carrying out a site investigation.

(6 marks)

- (b) Table 1 shows the activities and durations of a construction project.
 - (i) Draw a network diagram and show the critical path.
 - (ii) Using analysis table determine the earliest and latest times.

(14 marks)

Table 1

A	CTIVITY	EVENT	DURATION (IN WEEKS)	
	A	1-2	5	
	В	1 - 3	3	
	C	1-4	8	
	D	2-6	6	
	E	3-5	4	
	F	4-5	3	
	G	5-6	1	
	H	5 - 7	600	
	I	4-7	6	
3 4	J	6-7	4	
	K	6-8	6	
	L	7 - 8	9	

8. (a) Outline four reasons for maintaining discipline of workers in a work place.

(6 marks)

(b) Outline four reasons for conducting site meetings.

(6 marks)

(c) Outline four types of taxation in Kenya.

(8 marks)

[MH 18] - (Hational hospital insurance finel)

- Nutronal social Security fund

- local good service charge (L q s c)

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