higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)

FREIGHT LOGISTICS
NQF LEVEL 2

(11020252)

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13:00–16:00

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)
FREIGHT LOGISTICS
NQF LEVEL 2
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. Read all the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Start each section on a new page.
5. Use only a black or blue pen.
6. Write neatly and legibly.

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SECTION A

QUESTION 1

Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.1–1.10) in the ANSWER BOOK.

1.1 The handling of materials also occurs during distribution when goods are delivered.

1.2 Sea transport is subject to traffic congestion.

1.3 Traffic refers to the passage of different kinds of vehicles and people along routes of transportation.

1.4 During picking, other activities such as checking, binning and kitting are also done.

1.5 Metres are used to measure materials in liquid form.

1.6 Binning is the process of taking stock and placing it in the storage area.

1.7 Loads should be spread as evenly as possible during loading and unloading.

1.8 Capital needed to buy current assets is called fixed capital.

1.9 Turnover is the money that a company makes from selling products.

1.10 The Human Resources (HR) department deals with all aspects related to staff.

(10 × 1) **[10]**

QUESTION 2

Choose a term from COLUMN B that matches a description in COLUMN A. Write only the letter (A–M) next to the question number (2.1–2.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
2.1	The actual movement of people or goods using any mode of transport	A	binning
2.2	Consists of raw materials and finished and unfinished products which have not been sold	B	kitting
2.3	During this process, separate but related goods are grouped and packed together as one unit	C	scrap disposal
2.4	The layer outside the primary packaging	D	manpower costs
2.5	Carried out to repair a part or component after it has failed	E	traffic
2.6	Involves disposing of scrap, excess and obsolete materials	F	inventory
2.7	The point where expenses and income are equal	G	fixed costs
2.8	Costs associated with the employment of staff	H	secondary packaging
2.9	Insurance, rent and salaries of a logistics company	I	variable costs
2.10	When one is dedicated and works hard.	J	break-even point
		K	transportation
		L	reactive maintenance
		M	personal traits

(10 × 1) **[10]**

TOTAL SECTION A: 20

SECTION B

QUESTION 3

3.1 Read the following article and answer the questions:

SMART TRUCKS: THE BEST IN TRANSPORT

The council for Scientific and Industrial Research (CSIR) has commisioned five more performance-based standard (PBS) trucks or Smart Trucks.

The five new trucks for AB Inbev bring the total number of operational PBS trucks in South Africa to more than 270.

The PBS pilot programme was established by the CSIR with support from the Department of Transport. Its work entails conducting comprehensive PBS vehicle safety simulations and road infrastructure impact assessments, to ensure that the vehicles are designed to meet the prescribed minimum performance requirements stipulated by the agreed performance standards.

The primary objective of the PBS programme is to improve the efficiency of the logistics by reducing the costs of transporting raw materials and minimising the cost of delivering to customers.

The introduction of Smart Trucks has significantly contributed to the drop in the number of truck accidents on South African roads. Operators such as SG Coal, Unitrans, Barloworld, Buhle Betfu and AB Inbev have reported a 39% reduction in crashes and an average reduction of 12% in fuel consumption and as a result of increased payload efficiency, a reduction of over 84 000 trips per year.

[Source: *www.infrastrarene.ws*]

3.1.1 From the article, extract TWO objectives of the PBS programme. (2 × 2) (4)

3.1.2 Write the acronym PBS in full. (1)

3.1.3 Name THREE companies which benefit from the PBS programme. (3)

3.1.4 State THREE benefits of the Smart Trucks, according to the article. (3 × 2) (6)

3.2 Describe the following:

3.2.1 Supply chain

3.2.2 Scrap disposal

3.2.3 Storage

(3 × 2) (6)

3.3 Give FOUR reasons why customers return goods to the warehouse. (4)

[24]

QUESTION 4

4.1 Explain THREE roles of warehousing in a freight logistics environment. (3 × 2) (6)

4.2 Describe the order processing tasks that are performed during the following phases:

4.2.1 Order receipt

4.2.2 Order preparation

4.2.3 Routing

4.2.4 Picking

(4 × 2) (8)

4.3 Name THREE types of inventory stored in a warehouse. (3)

4.4 Name TWO documents that may be used during the receiving process. (2)

4.5 Name THREE advantages of predictive maintenance. (3 × 2) (6)

4.6 State FOUR advantages of using a freight distribution service. (4 × 2) (8)

[33]

QUESTION 5

5.1 Analyse the income statement of Rathanga Logistics and do the required calculations.

INCOME STATEMENT OF RATHANGA LOGISTICS FOR THE YEAR ENDED 30 JUNE 2018

Sales		800 000
Cost of sales		200 000
Gross profit		5.1.1
Other operating income:		100 000
Rent	100 000	
Gross operating income		5.1.2
Operating expenses:		246 000
Fuel	90 000	
Salaries	120 000	
Telephone	20 000	
Insurance	10 000	
Water and electricity	6 000	
Net profit		5.1.3

Calculate the following (show all your calculations):

5.1.1 Gross profit

5.1.2 Gross operating income

5.1.3 Net profit

(3 × 2) (6)

5.2 Differentiate between *fixed capital* and *working capital*. (2 × 2) (4)

5.3 State FIVE types of manpower costs. (5)

5.4 The CEO of Rathanga Logistics manages FOUR departments: Logistics, Finance, Production and Human resources. The logistics manager has ONE warehouse manager working under him. The warehouse manager oversees ONE picker.

Use the information provided to design an organogram for Rathanga Logistics. (6)

5.5 Explain the term *verbal reasoning*. (2)

[23]

TOTAL SECTION B: 80
GRAND TOTAL: 100

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