REGISTRATION CENTRE NUMBER	CENTRE NAME	
CANDIDATE'S FULL NAMES		
CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE **5420**	PAPER NUMBER **2**

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FOR OFFICIAL USE ONLY (Candidate Random Code) ▶	

GENERAL CERTIFICATE OF EDUCATION BOARD

Technical And Vocational Education Examination

INTERMEDIATE LEVEL

SUBJECT TITLE	SUBJECT CODE	PAPER NUMBER
Quality, Hygiene, Safety and Environment	**5420**	**2**
	EXAMINATION DATE: **JUNE 2025**	

KAWLO

QUESTION AND ANSWER BOOKLET

Duration: Two Hours

This Paper has FOUR (4) Sections:
Section A - Quality: Answer Any TWO Questions
Section B - Hygiene: Answer Any TWO Questions
Section C - Safety: Answer any FOUR Questions
Section D - Environment: Answer Any TWO Questions
Make sure you answer only the number of questions required for each section;

If you answer more than the number of questions required, only the first answers will be considered

You are reminded of the necessity for good English and orderly presentation in your answers.

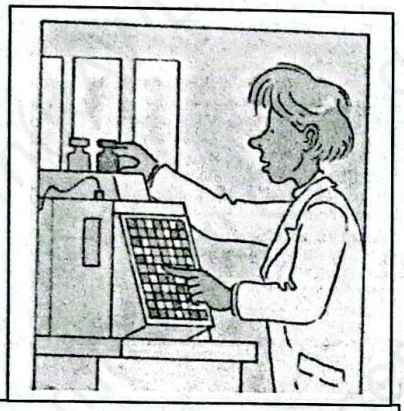
FOR EXAMINER`S USE ONLY	
Marked by: …… *Signature:* ……*Date:* ……	*SCORE*
Checked by: …… *Signature:* ……*Date:* ……	

Turn Over

From the information described in the professional situation below and from your personal knowledge, answer the questions in sections A,B,C and D.

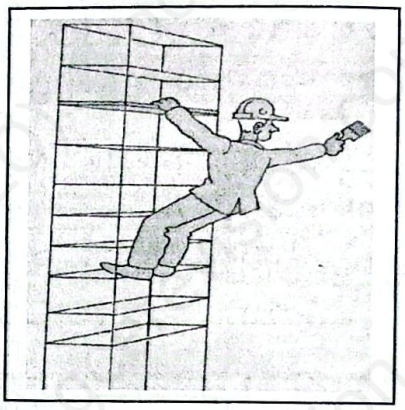
PROFESSIONAL SITUATION

Mola Eric a DELMANTEGO worker suffered from breathing and eye problems. He is a painter applying paint on newly constructed buildings of four to five stories. DELMANTEGO is a certified company that supplies its services to West and Central Africa audited by ISO 14000, 31000 and 4501. DELMANTEGO works in partnership with the paint factory that supplies colour paint chemicals and a carpentry workshop that supplies cartons. Last month Daniel, Mola's colleague who was newly recruited in the company was using a scaffold to paint the upper part of a wall. Ignoring the safety measures required while using a scaffold, he hung on the edges of the scaffold; fell down and stayed unconscious. Gilbert, a working lifeguard rushed to the accident site.



Mixing of paint.

Mola Eric stands for a lo time while painting.



Daniel uses a scaffold in a wrong manner while painting the upper part of a wall.

SECTION A: QUALITY

(Answer any two questions: 5 x 2 = 10 marks)

Question1: Workers are aspiring to work with DELMANTEGO and other companies are longing to partner with them due to its quality assurance.

1.1 Define the term ''Quality assurance'' **(1 mark)**

_____.

_____

_____

1.2 List two assuring factors that will guarantee other companies to partner with DELMANTEGO **(1 x 2=2 marks)**

_____

_____

_____

1.3. Identify two qualifications a worker requires to be fully employed at DELMANTEGO **(1 x 2= 2 marks)**

_____

_____

_____

Question 2: The managers want to improve on the quality of their services in the company, by using various methods like "Total Quality Management'' (TQM), and "Total Productive Maintenance'' (TPM) , and various tools.

2.1 Briefly state what these methods consist of: **(1 x 2 = 2 marks)**

"Total Quality Management'' (TQM) :

_____.

_____

_____

"Total Productive Maintenance'' (TPM) :

_____.

_____

_____

2.2 Fill the table below by indicating with a cross, if the tool used is for numerical or for non- numerical data. **(1 x 3 =3 marks)**

	TOOLS OF QUALITY	Tool for numerical data	Tool for non numerical data
1	GRAPHS	X	
2	SHEETS OF CONTROL		
3	DIAGRAM OF PARETO		
4	DIAGRAM CAUSES – EFFECT		

Question 3. The ISO audit certification of DELMANTEGO made the enterprise to be known worldwide. The ISO 14000, 31000 and 4501 are the areas DELMANTEGO was certified for.

3.1 Define the term "audit certification'' **(1 mark)**

_____

_____

3.2. Name the type of audit done by ISO on DELMANTEGO, and state what it consists of **(1 x 2 = 2 marks)**

The type of audit:

_____

_____

What it consists of:

_____

_____

_____

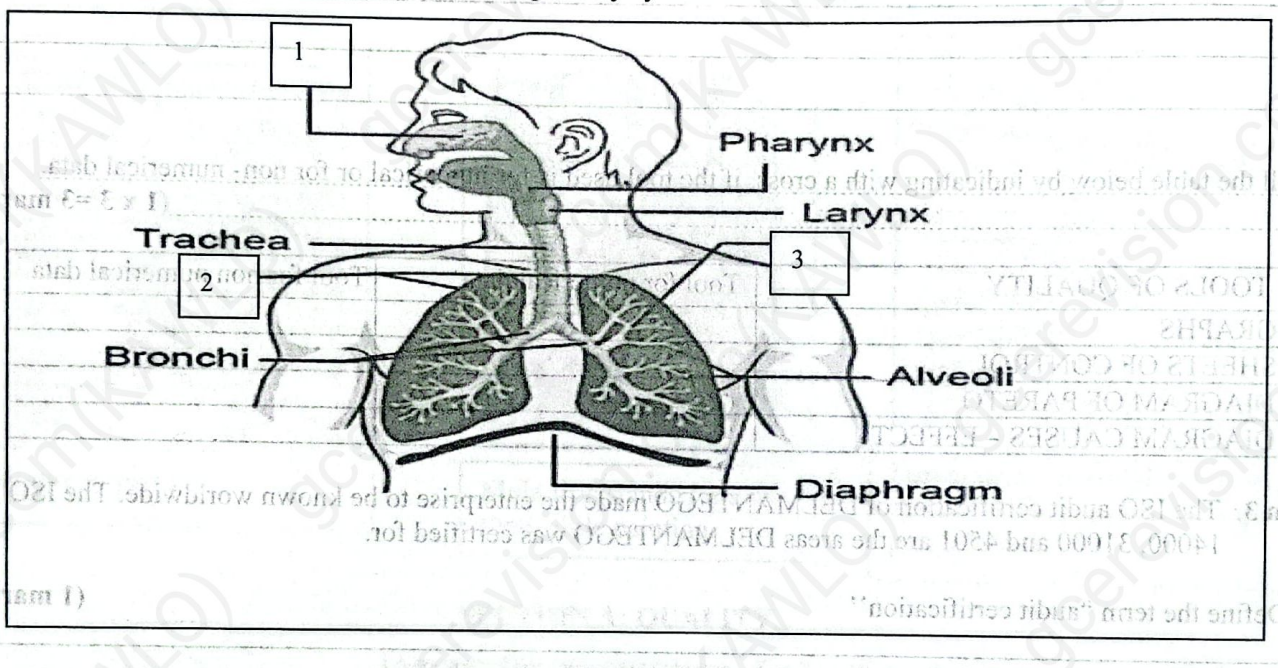
3.3. Identify the ISO listed above **(1 x 2 =2 marks)**

ISO	Identification
ISO 14000	Environmental Management
ISO 31000	
ISO 4501	

SECTION B: HYGIENE

(Answer any two questions: 5 x 2 = 10 marks)

Question 1. The diagram below represents the respiratory system of Mola Eric.



1.1 Label the parts **1, 2, 3** from the diagram above. **(1 x 3 =3 marks)**

1		2		3	

1.2. State two organs through which air passes from outside and enters the lungs **(1 x 2 = 2 marks).**

_____.

_____

_____

Question 2. During respiration, two gases are exchanged in the lungs

2.1. Identify the two gases exchanged **(1 x 2 = 2 marks)**

_____

_____

_____

2.2. Give the name of this gaseous movement **(1 mark)**

_____

_____

2.3 Name two factors that favour this gaseous movement **(1 x 2 = 2 marks)**

Question.3. Considering the functioning of the respiratory system.

3.1 Identify two functions of the respiratory apparatus. **(1 x 2 = 2 marks)**

3.2 Apart from respiratory gases, give one other substance that can be accidentally inhaled. **(1 mark)**

3.3 State two hygiene rules Mola should apply in order to ensure the proper functioning of his respiratory system **(1 x 2 = 2 marks)**

SECTION C: SAFETY

(Answer any four questions: 5 marks x 4 =20 Marks))

Question 1. The health doctor confirms that Mola Eric suffers from lungs infections and eye problems.

1.1 State two disease infections he may suffer from **(1 x 2 = 2 marks)**

1.2 List three preventive measures to avoid these infections **(1 x 3 = 3 marks)**

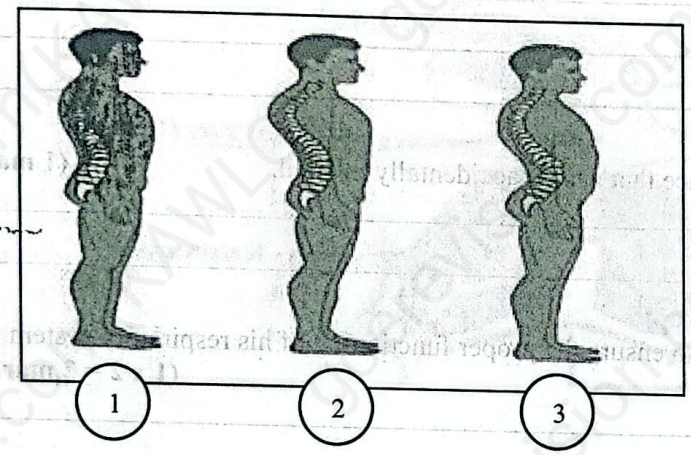
Turn Over

Question 2. Mola Eric stands for a long time painting houses; this situation leads to postural problems and spine deformations.

2.1 Match the postural problem in column A with its description in column B. **(1 x 3 =3 marks)**

Column A : Postural problem	**Column B: Description of postural problem**
Back pain ⟶	His muscle aches, a stabbing pain on his back down to his legs and cause irritability to stand upright
Lumbago	Pain in the fluid filled sac called bursea that cushions bones
Bursitis	He suffers a pain that radiates on his sciatic nerves from his lower back to his hip, buttocks then down to his legs that affect one side of his body
Sciatica	Lower back pain caused by muscle strain or slip disk

2.2 Identify the spine deformation on the pictures below **(1 x 2 =2 marks)**



1 : Normal

2

3

Question 3. Paint contains aggressive chemicals that affects the respiratory system. Dust in the air inhaled by Mola can also affect his respiratory system.

3.1. State two substances present in dust that are toxic. **(1 x 2 = 2 marks)**

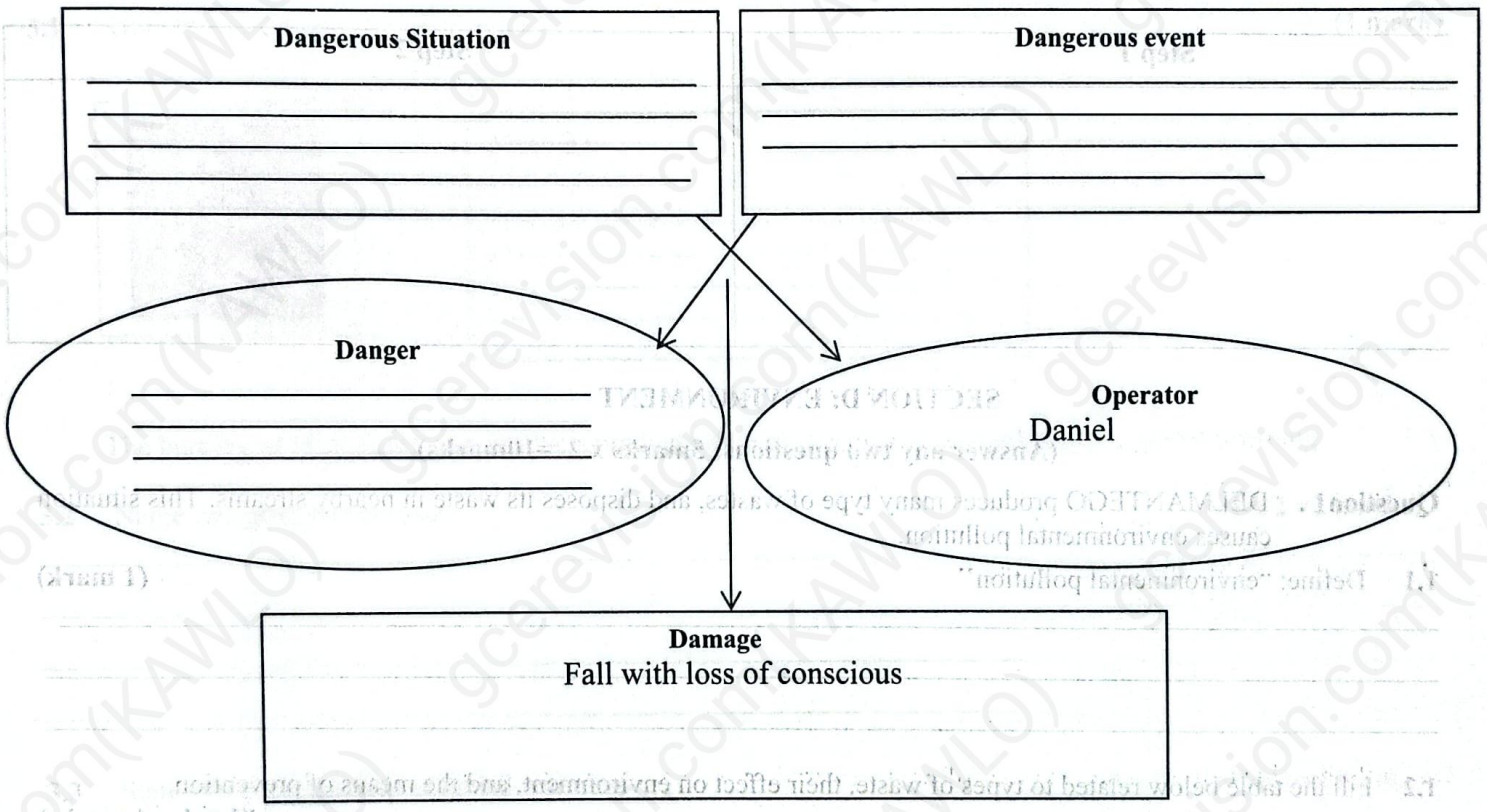
3.2 Give one effect of dust on Mola's respiratory system **(1 mark)**

3.3 Identify two preventive measures to be provided by the employer to prevent risks related to dust and aggressive chemicals **(1 x 2=2 marks)**

Question 4: Last month Daniel, Mola's colleague who was newly recruited in the company was using a scaffold to paint the upper part of a wall. Ignoring the safety measures of using a scaffold, he fell down and stayed unconscious.

4.1 State any two preventive measures to adopt using a scaffold. **(1 x 2=2 marks)**

4.2 Fill the diagram below related to the occurrence of this accident **(1 x 3 = 3 marks)**



Question 5. After Daniel's accident, Gilbert, a working lifeguard rushed to the accident site.

5.1 Daniel is said to have been a victim of a work related accident;

Define "a work related accident'' **(1 mark)**

5.2 The first step of the working lifeguard's intervention is to PROTECT.

State two actions to be taken during this step. **(1 x 2 =2 marks)**

5.3 Describe in a chronological order the other two steps of his intervention **(1 x2 =2 marks)**

Step 1	Step 2

SECTION D: ENVIRONMENT

(Answer any two questions: 5marks x 2 =10marks)

Question1 . DELMANTEGO produces many type of wastes, and disposes its waste in nearby streams. This situation causes environmental pollution.

1.1 Define: "environmental pollution'' **(1 mark)**

1.2 Fill the table below related to types of waste, their effect on environment, and the means of prevention.

(1 x 4 = 4 marks)

Type of waste	One effect on environment	One means of prevention
Oil paint		
Plastic brushes		

Question. 3 Sustainable development is currently a main preoccupation for many enterprises, which has been the focus on future development.

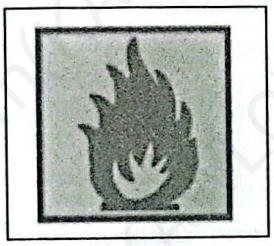
3.1 State two objectives of sustainable development **(1 x 2 = 2 marks)**

3. 2 From the table below identify the means of sustaining the environment from the following environmental issues. **(1 x 3 = 3 marks)**

Environmental issues(problems)	01 Sustainable solution
Energy wastage	
Fertilizer usage	
Disease transmission	

Question.3 The paintings used by DELMANTEGO are made from petroleum, and the pictogram below is posted on their containers:

3.1 Give the meaning of this pictogram **(1 mark)**



Meaning :

_____
_____
_____
_____

The burning of these petroleum products produces a lot of greenhouse gases that cause global warming

3.2 Name two greenhouse gases **(1 x 2 =2 marks)**

_____
_____
_____
_____

3.3 State two consequences of global warming **(1 x 2 =2 marks)**

_____
_____
_____
_____
_____
_____
_____