



# PIABC LEVEL 5 DIPLOMA IN PACKAGING TECHNOLOGY

(Qualification Number: 600/0017/X)

## EXAMINATION PAPER

June 2022

A/502/5921 UNIT 01

Packaging in Today's World

### INSTRUCTIONS TO CANDIDATES

You are required to answer and pass **ALL** the questions

Write your answers in the answer book provided

Wherever possible, use diagrams to illustrate your answer

This is a closed book examination

Reading Time: 5 minutes

Examination Time: 3 Hours

**PIABC Level 5 Diploma in Packaging Technology**  
**Unit 1 – Packaging in Today’s World**  
**June 2022**

**INSTRUCTIONS TO CANDIDATES**

**You are required to answer ALL the questions on this paper**

**Learning Outcome 1**  
**Understand the role of packaging in the modern society**  
(This question is worth 10% of the marks for this unit)

**Question 1**

- A) Using TWO examples, describe how packaging has changed to meet the needs of changing demographics? (2 x 1 mark)
- B) Discuss how globalization has impacted on packaging. (3 marks)
- C) Using FIVE examples, how can packaging activities be reflected in a company’s corporate social responsibility (CSR) programme. (5 marks)

**Learning Outcome 2**  
**Understand the structure and interactions of elements in the packaging supply chain**  
(This question is worth 20% of the marks for this unit)

**Question 2**

- A) Define and briefly describe the primary, secondary and tertiary packaging for a 400g rectangular pack of hard cheese. (3 x 2 marks)
- B) Outline a typical supply chain for this product from cheese manufacturer to retailer. (2 marks)
- C) For the packaging described above, discuss the ways the components work together to optimise the complete packaging solution in the supply chain. (3 x 3 marks)
- D) What are the most significant environmental hazards faced by the packed product in the supply chain and discuss how they can be minimised or controlled? (3 x 1 mark)

**Learning Outcome 3**  
**Understand the functions of packaging**  
(This question is worth 30% of the marks for this unit)

**Question 3**

- A) Vitamin tablets can be packed in a blister pack and carton or a plastic bottle. Discuss how both of these packaging formats perform the functions of packaging. (13 marks)
- B) A branded shower gel is packed for distribution through a major supermarket. Describe an appropriate primary, secondary and tertiary package for this product and discuss how the functions of packaging are achieved by each. (11 marks)
- C) Discuss the factors which will cause the following packs to degrade:
  - a) Plastic bottle for bleach (2 marks)
  - b) Corrugated case used for delivery of a laptop computer (2 marks)
  - c) Decorated metal chocolate biscuit box (2 marks)

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**Learning Outcome 4**  
**Know the principles of the key legislation, regulations and standards relating to the packaging supply chain**  
(This question is worth 15% of the marks for this unit)

**Question 4**

- A) Discuss how legislation is being developed and used to address concerns regarding the sustainability of packaging. (7 marks)
- B) Discuss using examples, three relative merits of using legislation or voluntary standards to achieve these sustainability goals. (3 x 2 marks)
- C) Identify FOUR consequences of not complying with legislation and/or voluntary standards. (2 marks)

**Learning Outcome 5**  
**Understand the factors that affect the impact of packaging on the environment**  
(This question is worth 15% of the marks for this unit)

**Question 5**

- A) Recently many organisations have expressed an interest in moving away from plastic packaging. Discuss, using examples, the possible environmental impacts of this strategy if implemented. (6 x 2 marks)
- B) Describe how the environmental impact of a pack can be assessed. (3 marks)

**Learning Outcome 6**  
**Understand the relationship between packaging and marketing**  
(This question is worth 10% of the marks for this unit)

**Question 6**

Using examples, discuss FIVE key functions of marketing when developing a new product. (5 x 2 marks)

**END OF EXAMINATION PAPER**