



# PIABC LEVEL 5 DIPLOMA IN PACKAGING TECHNOLOGY

(Qualification Number: 600/0017/X)

## EXAMINATION PAPER

**November 2019**

**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**  
**November 2019**

**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) Discuss how globalisation has impacted on the packaging industry. (5 marks)
- B) Companies can be heavily criticised within the media if they are deemed to have not acted in a socially responsible manner. Discuss the actions companies can take to ensure that they are considered as socially responsible. (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) A company produces tinned tomato soup for distribution to leading supermarkets. Describe the supply chain for ALL packaging items that the packer filler is likely to use from raw materials to packaging components ready for despatch to the packer filler. (12 marks)
- B) Shock from drops can be a significant cause of damage to electrical products. Discuss how the risks of shock damage to a smart phone in distribution could be minimised. (8 marks)

**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) A pre-printed film is used to flow wrap prepared salads. Discuss FOUR different legal requirements, each from a different piece of legislation, which this film must comply with. (4 x 3 marks)
- B) For the above product, discuss THREE possible consequences of failing to comply with the legislative requirements. (3 x 1 mark)

**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) Explain what is meant by an environmentally responsible pack. (3 marks)
- B) Provide a definition for life cycle assessment. (2 marks)
- C) Identify FIVE methods of managing packaging waste and discuss their relative advantages and disadvantages. (5 x 2 marks)

**Learning Outcome 6**  
**Understand the relationship between packaging and marketing**

(This question is worth 10% of the marks for this unit)

**Question 6**

Discuss FIVE different activities or tools used in the market research process to identify consumer needs. Give examples to explain your answer. (5 x 2 marks)