



**PIABC LEVEL 5 DIPLOMA  
IN PACKAGING TECHNOLOGY (QCF)**

(Qualification Number: 600/0017/X)

**EXAMINATION PAPER**

**June 2017**

**A/502/5921 UNIT 01**

**Packaging in Today's World**

Reading Time: 5 minutes

Examination Time: 3 Hours

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

**PIABC Level 5 Diploma in Packaging Technology (QCF)**  
**Unit 1 – Packaging in Today's World**  
**June 2017**

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) Globalisation is often cited as a significant driver for change. 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) 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 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) Identify the functions of packaging. (8 x ½ mark)
- B) 750g of cornflakes are packed in a high-density polyethylene bag inside a paperboard carton. 12 cartons are placed in a corrugated board case and palletised on a wooden pallet. The load is secured with stretch wrap. Discuss how this packaging system performs the functions of packaging. (20 marks)
- C) Discuss impact of shelf ready packaging in the supply chain. (6 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 intellectual property created during the packaging development process can be protected. (5 marks)
- B) Stating a specific example of legislation; discuss how it is being used to reduce the impact of packaging on the environment. (5 marks)
- C) Discuss the relative merits of using legislation versus standards in achieving acceptable product quality. (5 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) What is meant by an environmentally responsible pack (2 marks) and describe how to achieve it (3 marks)?
- B) Discuss the stages of conducting life cycle assessment in evaluating the environmental performance of a plastic bottle. (10 marks)

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

**Question 6**

- A) Identify and briefly describe FIVE responsibilities of the marketing department when developing of a new packed product. (7 marks)
- B) Briefly discuss the THREE fundamental messages a brand must convey for it to be successful. (3 x 1 mark)