



LEVEL 3 CERTIFICATE IN PACKAGING (QCF)

(Qualification Accreditation Number: 600/0455/1)

EXAMINATION PAPER

November 2016

R/502/5925 - UNIT A

The Fundamental Principles of Packaging

Reading Time: 5 minutes

Examination Time: 2 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

Level 3 Certificate in Packaging (QCF)
Unit A – The Fundamental of Principles of Packaging
November 2016

YOU ARE REQUIRED TO ANSWER **ALL** THE QUESTIONS ON THIS PAPER

Learning Outcome 1
Understand the role and functions of packaging
(25 marks)

Question 1

A soup is packed in a labelled 1 litre glass jar with a metal lug closure. Six jars are collated into a shelf ready corrugated case, which are palletised 20 cases to a layer and stacked seven layers high. The pallet is stabilised with stretch wrap. The product is shelf stable at ambient temperatures.

- A) List the SIX main functions of packaging. (6 x ½ marks)
- B) Explain how this primary package performs the functions of packaging (6 x 1½ marks) and why each one is important (6 x ½ mark).
- C) Explain how this secondary packaging performs the functions of packaging (5 x 1½ marks) and why each one is important (5 x ½ mark).

Learning Outcome 2
Understand the major packaging materials and
how they are combined to form packaging components
(25 marks)

Question 2

Propose suitable primary and secondary packaging for retail sale of ONE of the following products:

- 6 over-the-counter painkiller tablets; or
- 75ml moisturising body lotion

In your proposal you should:

- A) Identify the packaging components which are required for both primary and secondary packaging. (6 marks)
- B) State a suitable material for each component identified. (6 marks)
- C) Give your reasons why you have selected these materials. (13 marks)

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Learning Outcome 3
Understand the packaging development processes
(20 marks)

Question 3

- A) Using examples to illustrate your answer; discuss FOUR technical related factors to be considered in developing a new pack. (4 x 2 marks)
- B) Using examples to illustrate your answer; discuss FOUR market related factors to be considered when developing a new pack. (4 x 2 marks)
- C) Identify FOUR roles/disciplines which will be involved in developing new packaging. Discuss the importance of each role in ensuring a successful product is launched. (4 x 1 mark)

Learning Outcome 4
Understand packaging costs and quality systems
(15 marks)

Question 4

- A) List TEN costs of packing a product at a packer/filler and give an example for each. (10 x 1 mark)
- B) Briefly discuss FOUR types of quality costs that could be incurred by a business. (4 x 1 mark)
- C) If quality is defined as 'conformance to requirements', how do you communicate and agree these requirements with a supplier. (1 mark)

Learning Outcome 5
Understand the relationship between packaging and the environment
(15 marks)

Question 5

- A) Define what is meant by an environmentally responsible pack. (2 marks)
- B) a) Define a life cycle assessment. (2 marks)
b) Discuss the reasons why a life cycle assessment is important for a business and its limitations. (6 marks)
- C) Using examples; discuss why, from an environmental perspective, there is no such thing as an ideal packaging material or pack. (5 marks)