



Question Paper

Module 4:	Product Handling, Storage and Distribution	
Date: 11 May 2015	Time: 09:30 – 11:30	Duration: 2 Hours

You should have the following for this examination: **one answer book; pencil, pen and ruler.**

All questions carry equal marks. The maximum marks for each section within a question are shown. Answer **ALL EIGHT** questions, starting each question (1-8) on a **new** page in the answer book.

1. a) Describe **FOUR** factors affecting bin design. (8 marks)
b) Outline **TWO** advantages and **TWO** disadvantages of packing from a storage bin rather than directly off the mill. (4 marks)
2. a) i) One of the two principal modern methods of flour blending is 'Batch'. Name the other principal modern method. (1 mark)
ii) Outline **FIVE** advantages common to both methods. (5 marks)
b) Describe the **THREE** main types of mixer used in a flour blending system. (6 marks)
3. a) i) State the **TWO** pieces of UK legislation that apply to the weight of filled flour bags. (2 marks)
ii) Outline **THREE** steps that must be taken to ensure bags are not delivered below the minimum weight requirements. (3 marks)
b) List **FIVE** factors to be considered when deciding whether to use a bag placer on a packing filling spout. (5 marks)
c) Outline **TWO** methods for testing a product in flight metal detector. (2 marks)
4. a) List **SIX** advantages of a differential dosing scale. (6 marks)
b) Describe **THREE** methods of bulk flour outloading. (6 marks)

continued overleaf

5. a) **With the aid of diagrams, show and name FOUR possible configurations of filled flour bags stacked on a pallet.** (4 marks)
- b) **Outline FOUR advantages and FOUR disadvantages of automatic palletisation.** (8 marks)
6. a) i) **List THREE methods of power used in counterbalance forklift trucks.** (3 marks)
ii) **For EACH method of power, state ONE advantage and ONE disadvantage.** (6 marks)
- b) **State THREE subjects in which forklift drivers should be trained.** (3 marks)
7. a) i) **State why accurate stock control is important.** (1 mark)
ii) **Describe how bulk flour stocks are checked.** (2 marks)
iii) **Describe how bagged flour stocks are checked.** (2 marks)
- b) **List SEVEN safety considerations during unloading of a bulk road tanker.** (7 marks)
8. a) **Describe THREE alternative pest control methods developed to overcome insect resistance to Phosphine and the withdrawal of Methyl Bromide.** (6 marks)
- b) **List SIX methods used to control bird pests.** (6 marks)