

Qualification Framework written examination

Subject: 4 - Weights and Measures

May 2024

Guidance for this examination

Please ensure that you indicate clearly at the top of the answer booklet, the law viewpoint from which you will be answering: English, Scottish or Welsh.

The examiners may expect candidates to show knowledge of legislation which is in place but not in force (i.e. has been enacted) and regulations which have been made but are not yet in force, if they are directly relevant to the subject-matter of the examination.

Examination structure

There are two sections to the examination paper:

Section A Consists of six questions.
Candidates should attempt to answer three questions.
Total allocation of marks is 30 marks.
Suggested time allocation is 30 minutes.

Section B Consists of four questions.
Candidates should attempt to answer two questions.
Total allocation of marks is 70 marks.
Suggested time allocation is 90 minutes.

Total time allowed two hours (plus ten minutes reading time).

Note:

The Weights and Measures written exam paper is a **closed book**; no materials are permitted to be taken into the examination room.

The examination paper has 5 pages, including this front sheet.

Section A
Candidates should attempt to answer three questions.
Each question carries ten marks.
Total: 30 marks.

1. What is a non-weighing instrument? (10 marks)

2. With reference to relevant guidance notes and legislation, explain what a desiccating product is.

Why is it important with regard to Packaged Goods Regulations 2006? (10 marks)

3. With reference to the Weights and Measures Act 1985, outline the obligations that relate to public weighbridges. (10 marks)

4. Using the example of a 50t weighbridge with 20kg divisions, explain what an extended displaying device is and when you use it. (10 marks)

5. With respect to weights and measures legislation, outline the requirements that would apply to a bunch of bananas and a bunch of carrots. Both have a band around them to ensure the bunch stays together. (10 marks)

6. (a) What is standard temperature accounting? Explain what guidance is available on this matter. (5 marks)

Section B

Candidates should attempt to answer two questions.

Each question carries 35 marks.

Total: 70 marks.

7. You are inspecting a local supermarket and decide to weigh some of the packaged products on the scale. They are

the same. The name and address marked on the package is the head office of the supermarket, which is also in your authority.

(a) With reference to legislation,
and

e

10. The local authority for which you work wants to attach a weighing instrument to the rear of a bin lorry with the intention of charging local businesses for the waste that it collects. The process must be fully automatic with the weight data being sent to the council office via a 5G connection from the lorry. At the council office, the invoice will be calculated, and the completed invoice e-mailed to the customer immediately.

They have contacted your department for advice on the legal requirements of the instrument they are intending to purchase.

- a) With reference to the Measuring Instruments Regulations 2016 (as amended), what type and class of weighing instrument should they purchase? (5 marks)
- b) With reference to the relevant normative document, comment on the test loads you would use and how you would determine their accuracy if you were asked to initially conformity assess this instrument. (5 marks)
- c) Explain, with reference to regulations,