



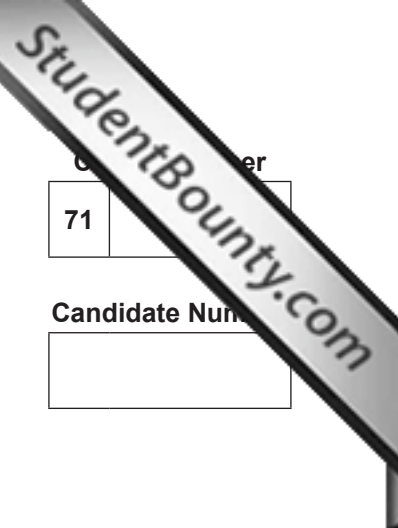
Rewarding Learning

General Certificate of Secondary Education  
2014

**Engineering**  
**Paper 2**  
**Assessment Unit 3**  
*assessing*  
**Engineering Technology**  
**[GEE32]**



**WEDNESDAY 4 JUNE, AFTERNOON**



Centre Number  
71  
Candidate Number

**TIME**

1 hour.

**INSTRUCTIONS TO CANDIDATES**

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.  
Write your answers in the spaces provided in this question paper.  
Answer **all** parts of the one question in this paper.  
The paper should be answered in relation to the Pre-Release Material.  
You will be provided with a new copy of the Pre-Release Material.  
You should **not** bring any of the material previously issued, or any notes made into this examination.

**INFORMATION FOR CANDIDATES**

The total mark for this paper is 40.  
Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each part question.  
Quality of written communication is assessed in **(g)** and **(h)**.

| For Examiner's use only |       |
|-------------------------|-------|
| Question Number         | Marks |
| (a)                     |       |
| (b)                     |       |
| (c)                     |       |
| (d)                     |       |
| (e)                     |       |
| (f)                     |       |
| (g)                     |       |
| (h)                     |       |
| <b>Total Marks</b>      |       |



(e) Computer Aided Design (CAD) is used extensively throughout the design process in preparation for the manufacture of the Taylor Continental 1100 bin. Outline **two** advantages of using CAD **during** the design process.

1.

\_\_\_\_\_ [2]

2.

\_\_\_\_\_ [2]

(f) (i) Standard components are used in the fabrication of this Taylor Continental 1100 bin. Give **two** examples of standard components that are used in its construction.

1.

\_\_\_\_\_ [1]

2.

\_\_\_\_\_ [1]

(ii) Outline **two** advantages of using standard components for the manufacturer.

1.

\_\_\_\_\_ [2]

2.

\_\_\_\_\_ [2]

Examiner Only

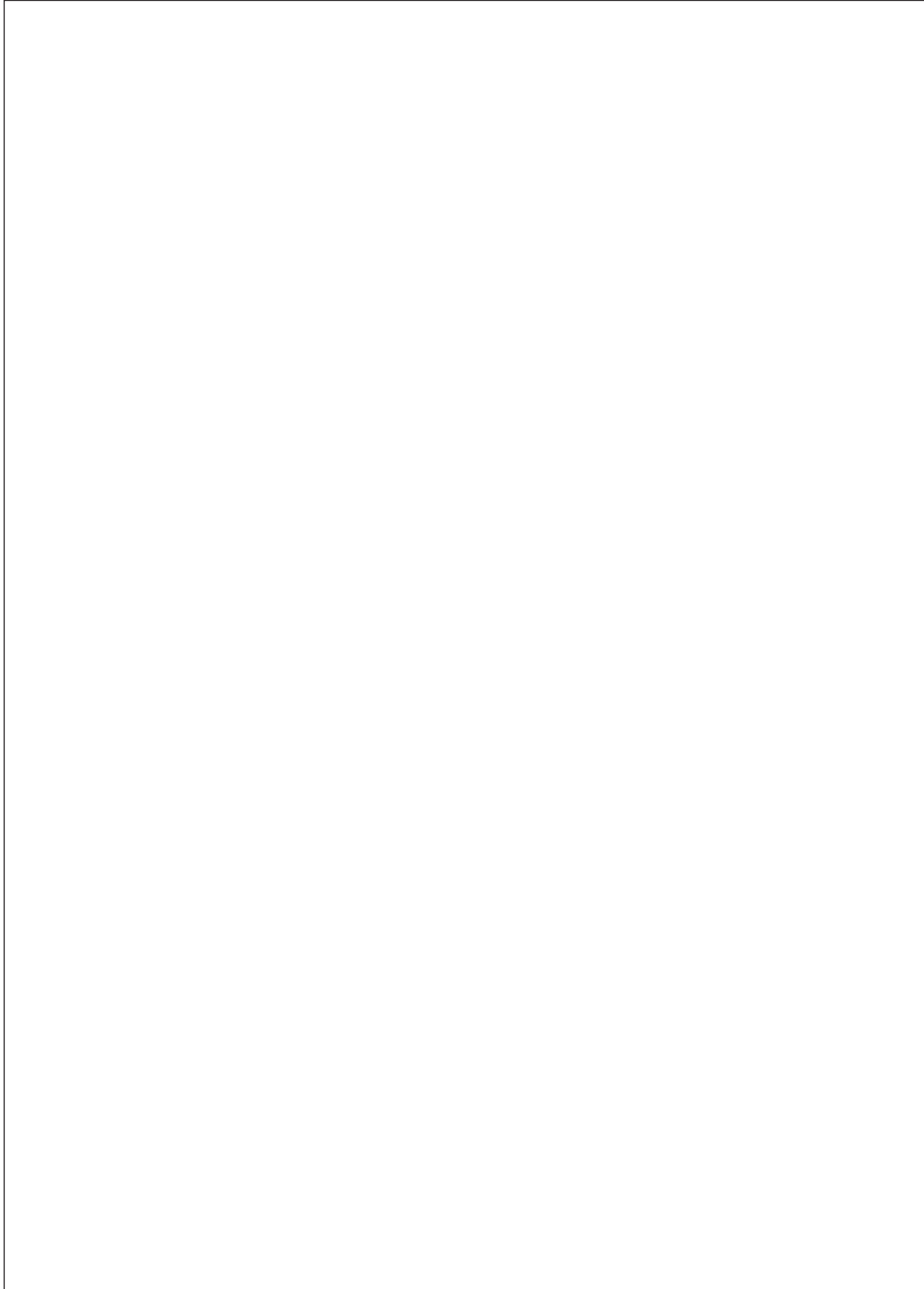
Marks

Remark

(g) In the box below using annotated sketches and the correct terminology show how the lid of the Taylor Continental 1100 bin is attached and hinged.

Marks will be awarded for

- Detail contained in sketches [4]
- Quality of sketches [3]
- Detailed notes [3]



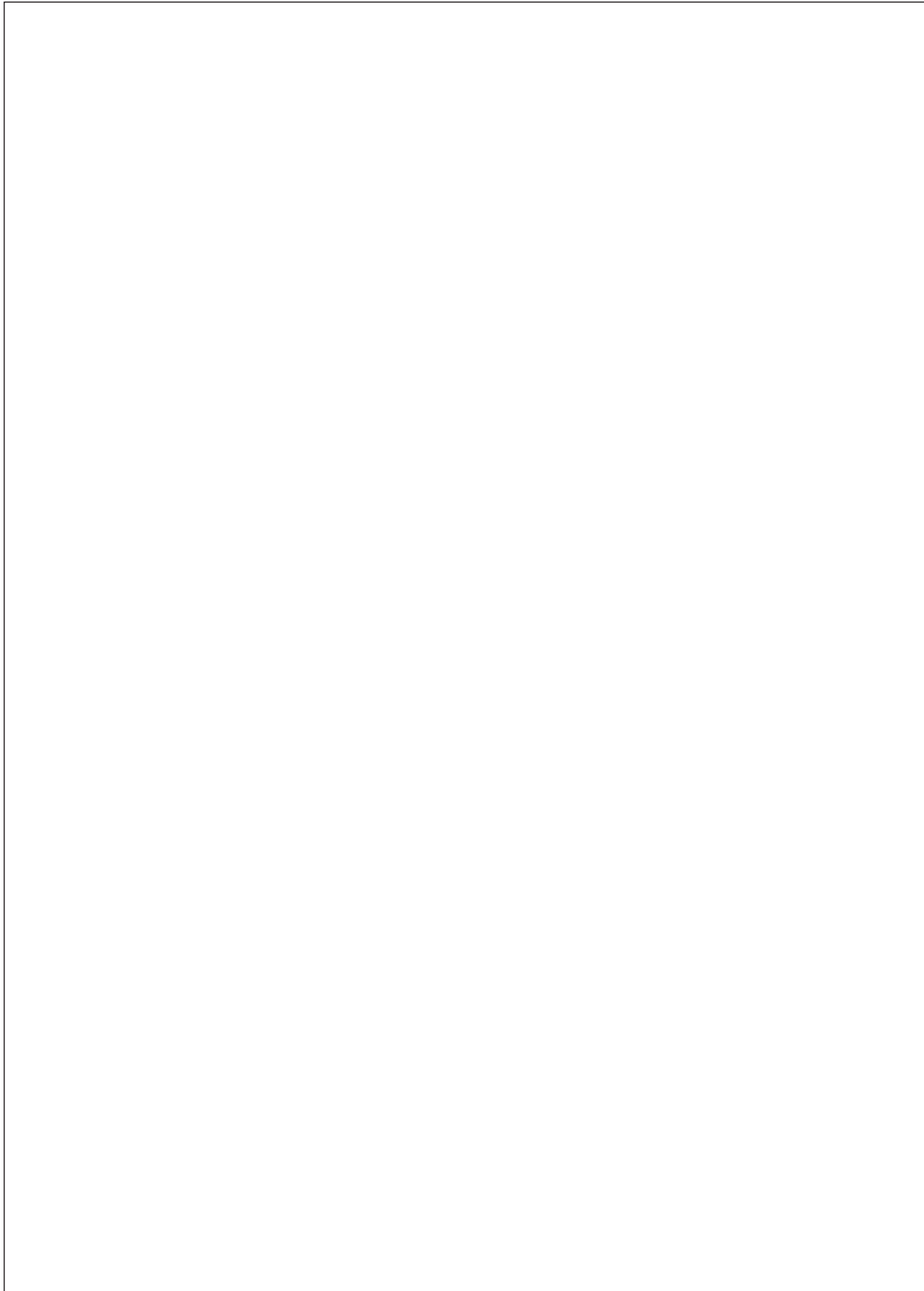
[10]

| Examiner Only |        |
|---------------|--------|
| Marks         | Remark |
|               |        |

(h) In the box below using annotated sketches and the correct terminology demonstrate how the lid of the Taylor Continental 1100 bin is manufactured.

Marks will be awarded for

- Detail contained in sketches [4]
- Quality of sketches [3]
- Detailed notes [3]



[10]

| Examiner Only |        |
|---------------|--------|
| Marks         | Remark |
|               |        |

---

**THIS IS THE END OF THE QUESTION PAPER**

---



Permission to reproduce all copyright material has been applied for.  
In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA  
will be happy to rectify any omissions of acknowledgement in future if notified.





*Rewarding Learning*

General Certificate of Secondary Education  
2014

---

**Engineering**

Pre-Release Material  
EXAMINATION COPY

Paper 2

Assessment Unit 3

*assessing*

Engineering Technology

**[GEE32]**

**JANUARY 2014 AND SUMMER 2014**

---



You must use **this** clean copy of the Pre-Release Material in the examination and **not** your own annotated copy.



8835.03

## Engineering Technology Pre-Release Material

The image below shows a Taylor Continental 1100 bin.



© Copyright Taylor Bins 2010-2012. Reproduced by permission of Egbert H. Taylor & Co Ltd.

### Description

Built to EN840 standards the award-winning Continental range is established as the industry standard for waste and recycling containers. This workhorse of the waste industry offers unrivalled size and capacity options, from 500 litres to 1280 litres. The body of the bin ensures robust protection in the harshest of environments, and protects the container from internal corrosion due to residual waste being caught in exposed corners.

### Features include:

- Swivel castors.
- Available in different sizes.
- Welded seams.
- Sump base for improved rigidity and stability with drain plug as standard.
- Comb lifting bar.

Permission to reproduce all copyright material has been applied for.  
In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA will be happy to rectify any omissions of acknowledgement in future if notified.