



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	
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Candidate Number

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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)	

Total Marks	
--------------------	--

Answer **all** parts of the question.

Examiner Only	
Marks	Remark

- 1** (a) (i) Name the process used to shape the sides of the Taylor Continental 1100 bin.
- _____
- _____ [1]
- (ii) Outline **one** advantage of this process for the manufacturer.
- _____
- _____ [2]
- (b) The exterior of the Taylor Continental 1100 bin is sprayed using robotics. Outline **one** advantage of using robotics to complete this task.
- _____
- _____ [2]
- (c) Name the material that the Taylor Continental 1100 bin is made from.
- _____
- _____ [1]
- (d) (i) The body of the Taylor Continental 1100 bin is hot dipped galvanised. Explain the term galvanise.
- _____
- _____ [2]
- (ii) Outline **one** advantage of carrying out this process on the Taylor Continental 1100 bin.
- _____
- _____ [2]

(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.

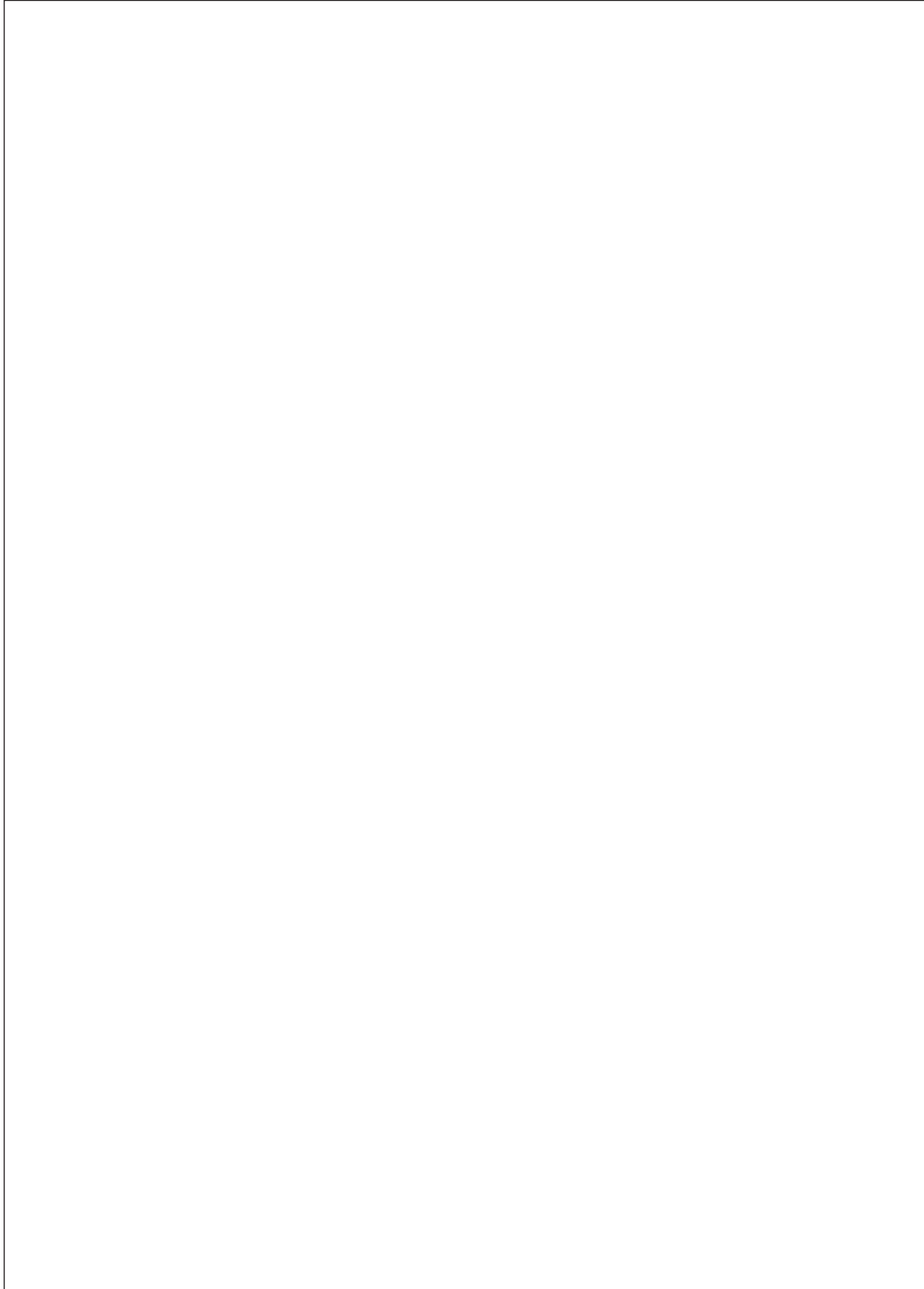
_____ [2]

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]



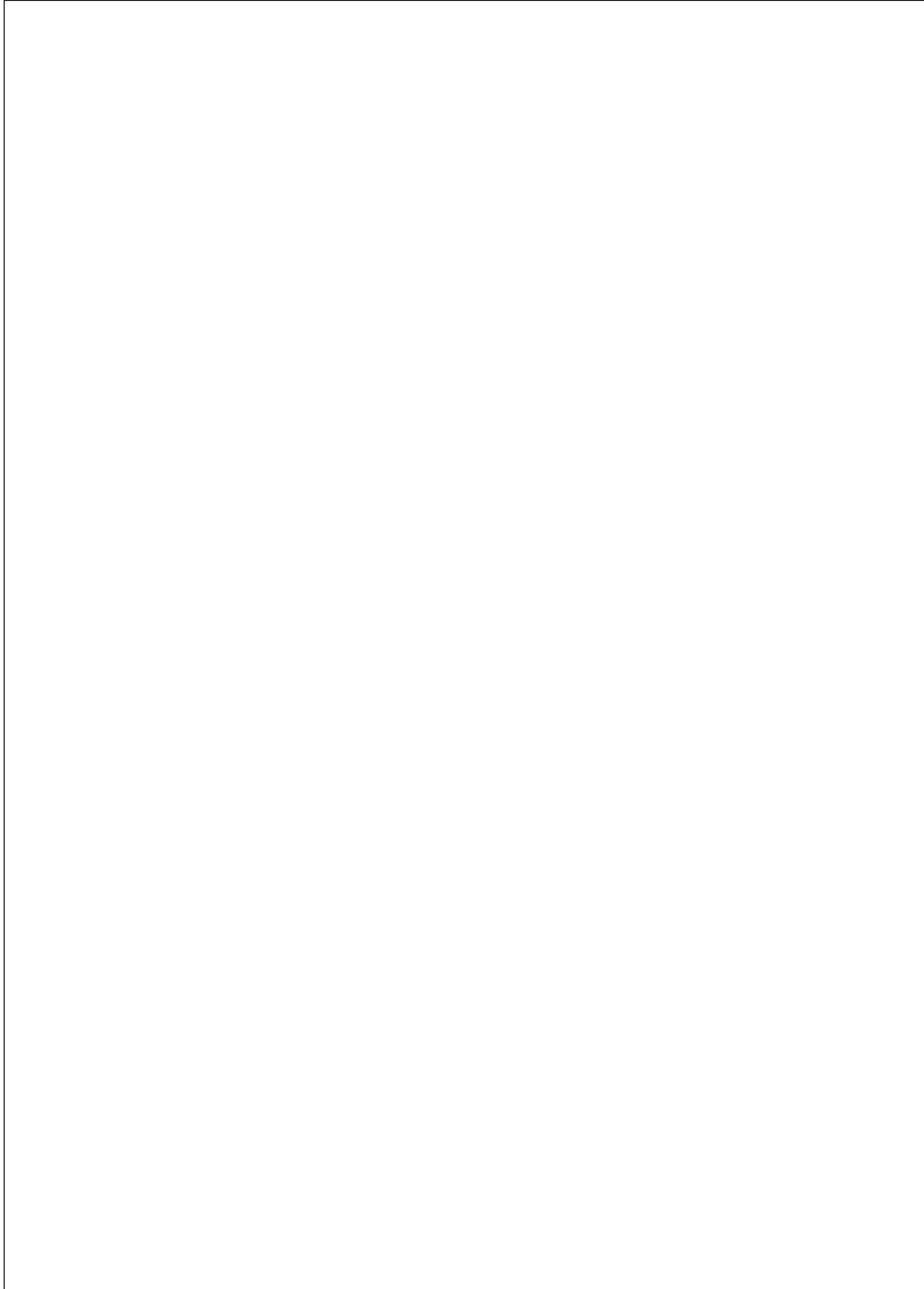
[10]

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

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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.



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.

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