



Rewarding Learning

Centre Number

71

Candidate Number



General Certificate of Secondary Education  
2014

**Manufacturing**  
**Paper 2**  
**Assessment Unit 3**  
*assessing*  
**Manufacturing Technology**  
**[GMA32]**

**TUESDAY 24 JUNE, AFTERNOON**

**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	
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Answer **all** parts of the question.

1 (a) (i) Name an appropriate wood used to manufacture a kitchen island.

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[1]

(ii) Name an appropriate glue which would be used by a manufacturer in the assembly of a kitchen island.

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[1]

(iii) Name an appropriate surface finish which would be applied to the worktop surface of a kitchen island.

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[1]

(iv) State **two** advantages of applying a surface finish to the top of a kitchen island.

1. \_\_\_\_\_

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[1]

2. \_\_\_\_\_

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[1]

(b) (i) Outline how modern technology when used in the manufacture of a kitchen island enhances the overall quality of the final product.

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[2]

(ii) Give **one** example of where modern technology is used in the manufacture of a kitchen island.

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[1]

Examiner Only	
Marks	Remark

(c) To ensure the product is fit for purpose, a manufacturer applies quality control testing methods throughout the manufacture of a kitchen island before dispatch to the public.

(i) Outline **one** example of how a manufacturer carries out quality control checks on a kitchen island.

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[2]

(ii) Outline **one** benefit of quality control checks made during the manufacturing stages of a kitchen island.

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[2]

(d) Control technology is used throughout the manufacture of a kitchen island. Outline **one** way in which control technology has impacted on manufacturing efficiency.

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[2]

(e) State and describe the use of computer control in the manufacturing stage of a kitchen island.

Computer Control

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[1]

Description

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[3]

(f) During the initial design stage of any product in the market place, CAD has a part to play. Outline **one** example of how CAD helped shorten the lead times of kitchen islands.

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[2]

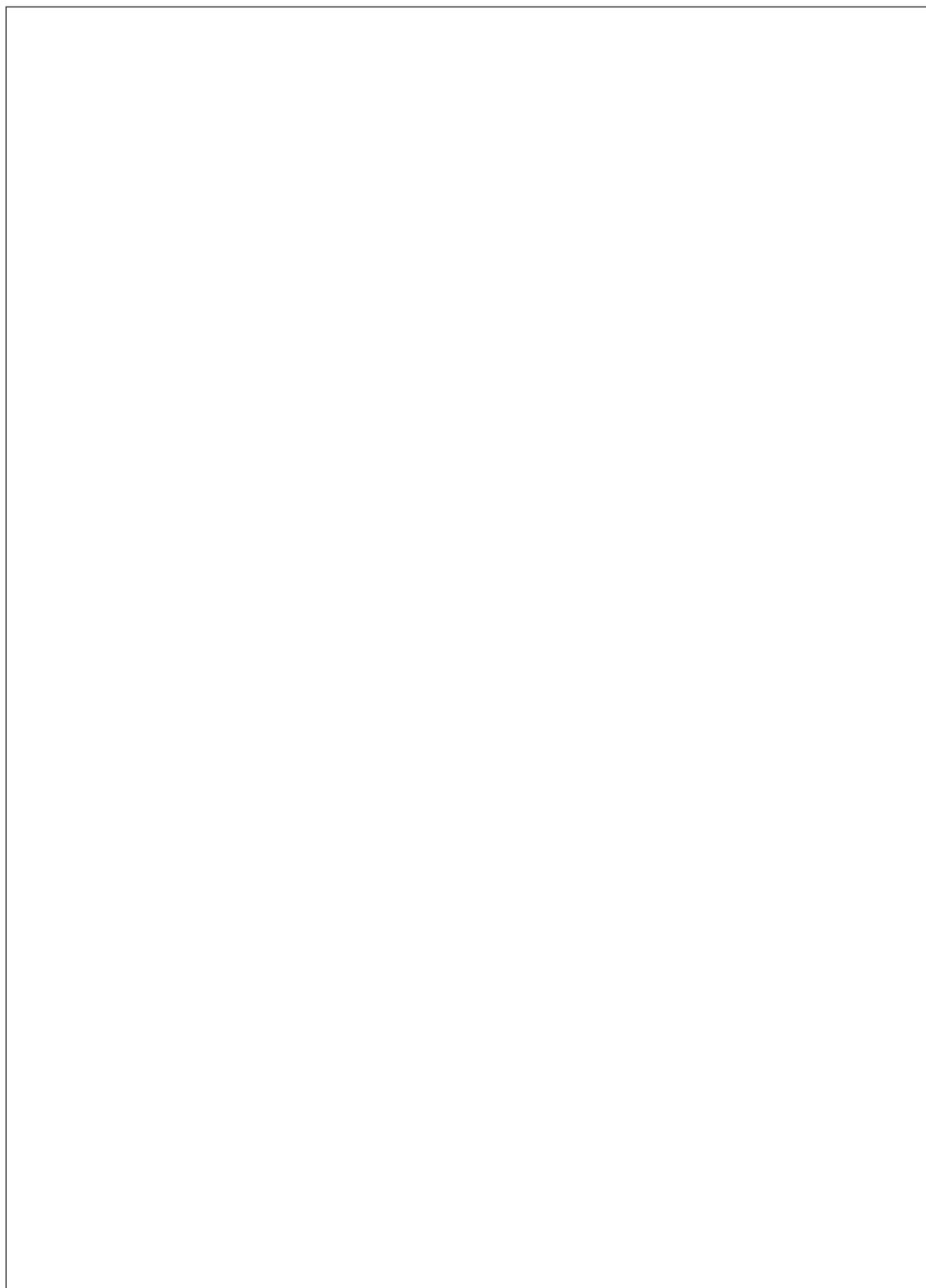
Examiner Only	
Marks	Remark

(g) There are various wood jointing techniques used in the manufacture of a kitchen island.

In the box below using annotated sketches and correct terminology describe any **two** wood working joints used in its construction.

Marks will be awarded for

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



[10]

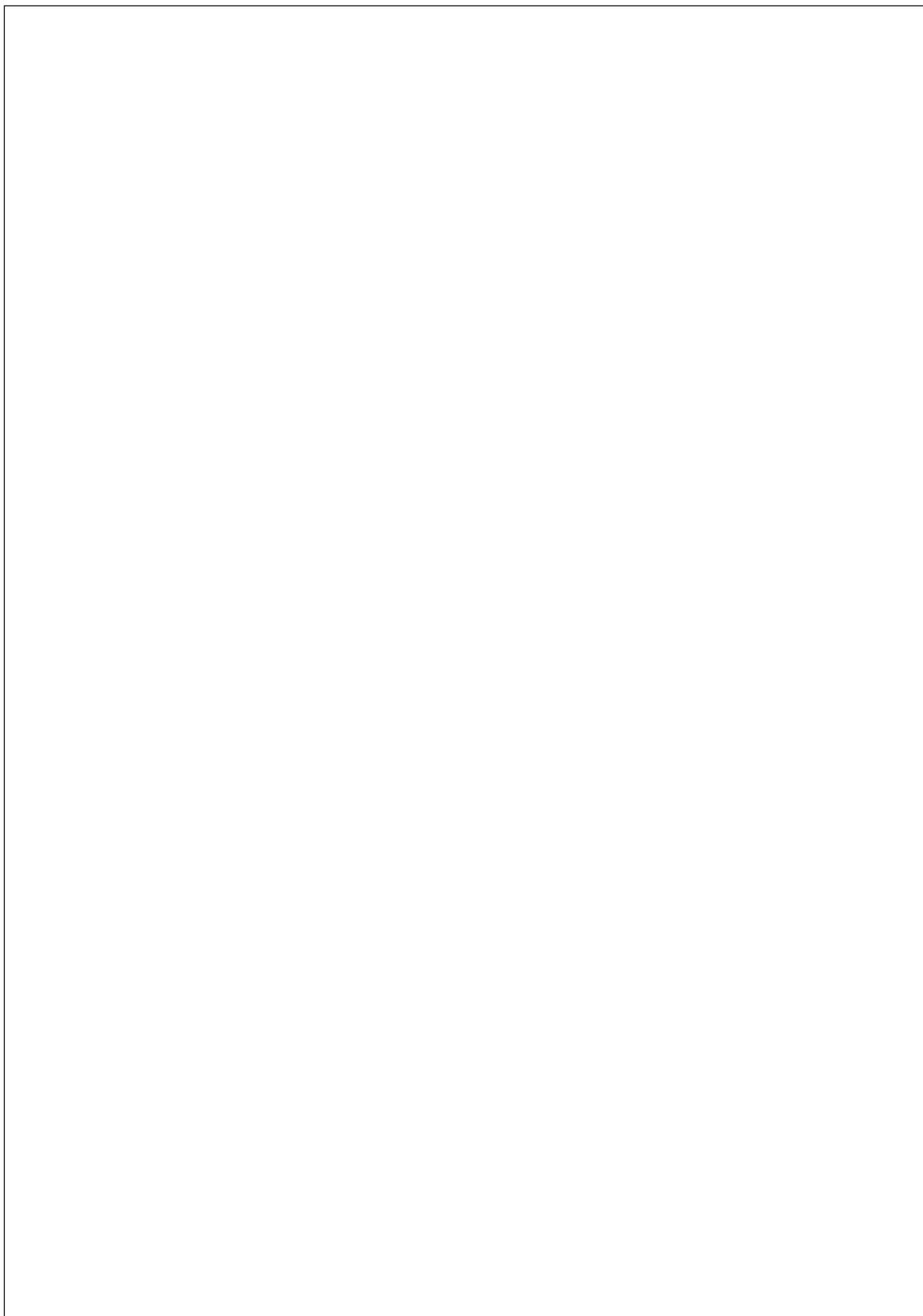
Examiner Only	
Marks	Remark

(h) The drawer in a kitchen island is able to move freely in a linear motion.

In the box below using annotated sketches and correct terminology show how a typical drawer movement is achieved.

Marks will be awarded for

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



[10]

Examiner Only	
Marks	Remark

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

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**Manufacturing**  
Pre-Release Material  
**EXAMINATION COPY**  
**Paper 2**  
**Assessment Unit 3**  
*assessing*  
**Manufacturing Technology**  
**[GMA32]**

**JANUARY 2014 AND SUMMER 2014**

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



## Manufacturing Technology Pre-Release Material

Answer **all** parts of the question.

There is **one** question in this paper which relates to the pre-release materials.

You should draw on the knowledge gained from the pre-release task and also Unit 3: Manufacturing Technology.

The image below shows a Kitchen Island.



© Eddingtons Ltd

### Description

A kitchen island like the one shown is a valuable asset to any kitchen. It enables the user to have extra worktop space for the preparation and placement of food items. It can be easily moved around the kitchen and is very adaptable to any style and shape of kitchen. The storage underneath and the drawer facility are also useful when it comes to using those items which are used most frequently or need access easily.

### Features include:

- Swivel castors.
- Available in different sizes.
- Frame material Hardwood/Softwood.
- Butchers' Block Styling.
- Lockable castor wheels.
- Delivered flat packed with easy assemble instructions.