

General Certificate of Secondary Education
January 2014

### Manufacturing

Paper 2

Assessment Unit 3

assessing

Manufacturing Technology

[GMA32]

**TUESDAY 14 JANUARY, 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 will be assessed in (h) and (i).

For Examiner's use only				
Question Number	Marks			
(a)				
(b)				
(c)				
(d)				
(e)				
(f)				
(g)				
(h)				
(i)				

Student Bounty Com

Total	
Marks	

8839

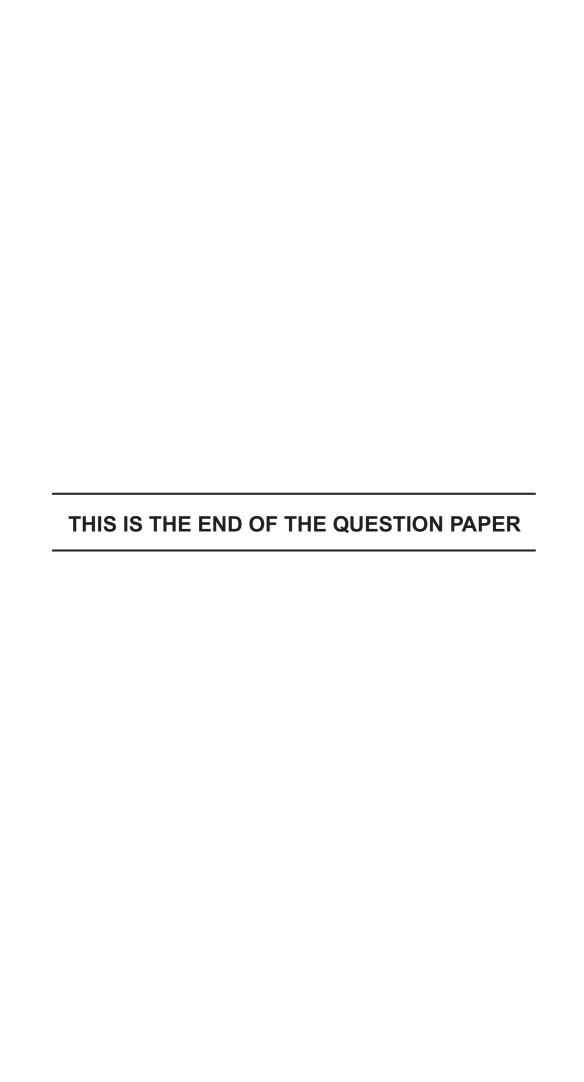
			'	Marks	Remark
1	(a)	pre- soft	e mainframe of a kitchen island like the one shown in the release material can be manufactured using either a hardwood or twood. Distinguish between the two different types of wood and e one example of each.		
		Har	rdwood		
			[2]		
		Sof	itwood		
			[2]		
	(b)		e majority of kitchen islands like the one shown in the pre-release terial have a butcher block top.		
		(i)	Suggest an appropriate surface finish which could be applied to this worktop.		
			[1]		
		(ii)	Give <b>one</b> reason why this is an appropriate finish.		
			[1]		
	(c)		mputer numerical control (CNC) machinery is used throughout the nufacture of kitchen islands.		
		(i)	Outline <b>one</b> area of manufacture where CNC machinery is used and name the specific type of CNC machinery used at that stage.		
			Area of manufacture		
			[1]		
			Type of CNC machinery used  [1]		
			[']		

(ii)	Outline <b>one</b> advantage of using this modern technology throughout the manufacture of a kitchen island.	Examiner Only  Marks Remark
		[2]
con	nponents like the castors attached to the frame of the island.	
	· · · · · · · · · · · · · · · · · · ·	nan
		[2]
	·	
	·	
Exa	imple of a knock-down fitting	
		[1]
	•	luct
	•	
		[2]
	Mar com Give prod kitch Kno kitch Exa	Manufacturers of mobile kitchen islands often buy in standard components like the castors attached to the frame of the island.  Give one reason why a manufacturer would buy in castors rather the produce the castors themselves.  Knock-down fittings are also used in the manufacture of cheaper kitchen islands.  Give one example of a knock-down fitting which could be used in a kitchen island construction.  Example of a knock-down fitting  Manufacturers in order to achieve sales must ensure that their procise not only functional but also aesthetically pleasing.  Outline one example of how a manufacturer adds to the aesthetic appeal of a kitchen island before selling it to the public.

(g)	Info and	ormation and communication technology (ICT) is used in the des I manufacture of kitchen islands.	ign	Examin Marks	er Only Remark
	(i)	State and describe <b>one</b> use of ICT in the design stage of a kitchen island.			
		Type of ICT used	[4]		
		Description of use	[1]		
			[2]		
	(ii)	Outline <b>one</b> benefit of using ICT at this stage.			
			[2]		

(h) In the box below using annotated sketches show how the shelf in the middle of the kitchen island is assembled and attached.	Examiner Only  Marks Remark
<ul> <li>Marks will be awarded for</li> <li>Detail contained in sketches [4]</li> <li>Quality of sketches [3]</li> <li>Detailed notes [3]</li> </ul>	
[10]	

(1)	terminology show how the butcher block is attached to the frame of the kitchen island.	Marks	er Only Remark
	Also demonstrate how a typical drawer can be constructed for a		
	kitchen island.		
	Marks will be awarded for		
	<ul><li>Detail contained in sketches [4]</li><li>Quality of sketches [3]</li></ul>		
	Detailed notes [3]		
	[10]		



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# General Certificate of Secondary Education 2014

## Manufacturing

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



**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.



### **Manufacturing Technology Pre-Release Material**

Answer all parts of the question.

There is **one** guestion 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.



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### **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.

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