



General Certificate of Secondary Education
2011

Manufacturing
Paper 2
Assessment Unit 3
assessing
Manufacturing Technology
[GMA32]
THURSDAY 23 JUNE, MORNING

**MARK
SCHEME**

		AVAILABLE MARKS
1	(a) Very durable wood Other answers considered	[2]
	(b) Using CNC to make the wood joints Other answers considered	[2]
	(c) High set up cost Other answers considered	[2]
	(d) Quick to model different panel doors on screen to suit the clients requirements Ideas can be modified Ideas can be saved and sent electronically (Remote manufacturing) Fast Other answers considered [2 × 2]	[4]
	(e) (i) Quality assurance is the achievement of the required quality standards of the finished product before despatching it to the customer or storage. It is achieved by creating and maintaining a quality system within the manufacturing organisation. [1]	
	(ii) Quality control is achieved by establishing the expected quality standards required by the customer, and then planning to achieve those standards. As the product is manufactured it is inspected and if necessary corrective action is taken to ensure that the expected quality standards are met. [1]	
	Other answers considered	[2]
	(f) Robust natural material More resistant to decay Gives a high end finish Stronger material Other answers considered	[2]
	(g) Panel doors are more easily marketed worldwide due to the internet Other answers considered	[2]
	(h) Fast Accurate Other answers considered	[2]
	(i) To allow product development. To keep up with competitors Other answers considered	[2]
	(j) Appropriate diagram showing one wood working jointing technique that is used in the manufacture of panel doors, to join the vertical stile board with the horizontal top rail. Marks will be awarded for <ul style="list-style-type: none"> ● Detail contained in sketches [4] ● Quality of sketches [3] ● Detailed notes [3] 	[10]

(k) Appropriate diagram showing how a panel is held in place in a panel door.		AVAILABLE MARKS
Marks will be awarded for		
● Suitability of chosen method [4]		
● Quality of sketches [3]		
● Detailed notes [3]	[10]	40
	Total	40