



*Rewarding Learning*

General Certificate of Secondary Education  
January 2011

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## **Manufacturing**

Paper 2

Assessment Unit 3

*assessing*

Manufacturing Technology

**[GMA32]**

**MONDAY 31 JANUARY, MORNING**

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# **MARK SCHEME**

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			AVAILABLE MARKS
<b>1</b>	<p><b>(a)</b> Varnish Other answers considered</p> <p><b>(b)</b> PVA Other answers considered</p> <p><b>(c)</b> More accurate Faster Other answers considered [2 × 2]</p> <p><b>(d) (i)</b> Drawing package – Solid Works Prodesktop. Other answers considered Explain how it is used – This package is able to model initial ideas quickly. Other answers considered</p> <p><b>(ii)</b> Benefit of using ICT – Ideas can be modified quickly</p> <p><b>(e)</b> Different parts of the door construction may need more strength Other answers considered</p> <p><b>(f)</b> Lead times reduced Accidents reduced Reduce labour Other answers considered [2 × 2]</p> <p><b>(g)</b> Specialist workforce required. Reduced size of workforce Other answers considered</p> <p><b>(h)</b> CNC router</p> <p><b>(i)</b> Appropriate diagrams showing the difference between corner bridle joints and mortice and tenon joints. Marks will be awarded for</p> <ul style="list-style-type: none"> <li>● Detail contained in sketches [4]</li> <li>● Quality of sketches [3]</li> <li>● Detailed notes [3]</li> </ul> <p><b>(j)</b> Appropriate diagram showing how a tongue and groove joint may be incorporated into a panel door. Marks will be awarded for</p> <ul style="list-style-type: none"> <li>● Suitability of chosen method [4]</li> <li>● Quality of sketches [3]</li> <li>● Detailed notes [3]</li> </ul>	<p>[1]</p> <p>[1]</p> <p>[4]</p> <p>[1]</p> <p>[2]</p> <p>[2]</p> <p>[2]</p> <p>[4]</p> <p>[2]</p> <p>[1]</p> <p>[10]</p> <p>[10]</p>	<p>40</p> <p><b>40</b></p>
<b>Total</b>			<b>40</b>