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# Question Paper Brief

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## Higher Design and Manufacture

**C719 76**

This edition: November 2015 (version 1.0)

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## Question Paper Brief — Higher Design and Manufacture

Knowledge and understanding/skills	Range of marks
Design process and members of a design team: <ul style="list-style-type: none"> <li>◆ members of a design team</li> <li>◆ brief, research, specification, idea generation, evaluation</li> <li>◆ communication and modelling, graphic/modelling techniques and materials</li> </ul>	13–18
Design factors: <ul style="list-style-type: none"> <li>◆ function</li> <li>◆ performance</li> <li>◆ market</li> <li>◆ aesthetics</li> <li>◆ ergonomics</li> </ul>	16–21
Materials and material properties: <ul style="list-style-type: none"> <li>◆ plastics (including composites)</li> <li>◆ metals</li> <li>◆ woods</li> <li>◆ timber derivatives</li> <li>◆ properties of material</li> </ul>	12–16
Production planning and industrial processes: <ul style="list-style-type: none"> <li>◆ planning for manufacture (production and planning systems)</li> <li>◆ plastic processes (including composites)</li> <li>◆ metal processes</li> <li>◆ wood processes</li> <li>◆ identification of commercial processes</li> </ul>	12–16
The impact of design and manufacturing technologies on society and the environment and the world of work	2–5

### Additional information

<p><b>Section 1</b> of the question paper will have 25 marks. It will consist of a single question, based on a product type, and will require extended and reasoned responses. The question will follow a similar format each year and will test the learner's knowledge and understanding of core areas from across the Course. The question will also require the learner to integrate this knowledge.</p>
<p><b>Section 2</b> of the question paper will have 45 marks. It will consist of five or six questions. The responses will require integration of knowledge and understanding from across the Course.</p>
<p><b>'A' type questions:</b> approximately 30% of the total marks for the question paper.</p>