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# Question Paper Brief

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## National 5 Design and Manufacture C719 75

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## Question Paper Brief — National 5 Design and Manufacture

Knowledge and understanding/skills	Range of marks
Design process: <ul style="list-style-type: none"> <li>◆ members of a design team</li> <li>◆ processes (problem, brief, research, specification, idea generation, development and refinement of ideas)</li> <li>◆ evaluation</li> </ul>	6–12
Design factors: <ul style="list-style-type: none"> <li>◆ function</li> <li>◆ performance</li> <li>◆ market</li> <li>◆ aesthetics</li> <li>◆ ergonomics</li> </ul>	9–15
Communication techniques and modelling: <ul style="list-style-type: none"> <li>◆ graphic techniques</li> <li>◆ range of modelling techniques and materials</li> </ul>	4–8
Planning for manufacture	3–6
Tools, materials and processes: <ul style="list-style-type: none"> <li>◆ common tools and equipment</li> <li>◆ fixing and joining techniques</li> <li>◆ metalworking and associated processes</li> <li>◆ woodworking and associated processes</li> <li>◆ plastic work</li> <li>◆ surface finishing</li> <li>◆ health and safety</li> </ul>	12–18
Manufacturing in industry	6–10
Impact of design and manufacture on the environment, work and society: <ul style="list-style-type: none"> <li>◆ impact of design technologies on society and the environment</li> <li>◆ impact of manufacturing technologies and activities on the world of work and society</li> </ul>	3–6
The properties of common materials: <ul style="list-style-type: none"> <li>◆ woods, plastics and metals</li> </ul>	4–8

## **Additional information**

**Section 1** will represent approximately 40% of the total marks for the question paper. It will consist of a single question, based on a product, and will require extended and reasoned responses.

**Section 2** will represent approximately 60% of the total marks for the question paper. It will consist of four or five questions. The responses will require integration of knowledge and understanding from across the Course.

**'A' type questions:** approximately 30% of the total marks for the question paper.