



Design & Manufacture

TECHNOLOGIES



Content

The course has two areas of study:

- Design (studying the design process from brief to design proposal).
- Manufacture (studying the manufacture of commercial products).



Skills

Learners will be able to:

- devise, plan and develop practical design solutions
- develop practical skills in the planning and development of models and prototypes
- evaluate and research
- understand manufacturing processes and materials
- understand the impact of design and manufacturing technologies on our environment and society
- develop research skills
- develop idea generation techniques
- read drawings and diagrams
- communicate design ideas and practical details



Opportunities for Learners

Learners will be able to:

- devise, plan and develop practical solutions to design opportunities
- consider the various factors that impact on a product's design
- consider the life cycle of a product from its inception through design, manufacture, and use, including its disposal and/or re-use — cradle-to-cradle
- explore design alternatives and to consider the manufacturing practicalities that these design alternatives bring to light
- apply practical skills and an understanding of the properties and uses of materials and manufacturing processes



Assessment

- The course will be assessed through a question paper (exam) and an assignment, which will be marked by SQA and graded A to D.
- The question paper is worth 80 marks and makes up 47% of the total assessment mark.
- The assignment (90 marks) makes up 53% of the total assessment mark. Learners use their design skills to develop a proposal according to a set brief.



Question Paper Section 1: Design process, factors, materials, production (25 marks) 2 hours 15 minutes
Section 2: Questions on the whole course (55 marks) 80 marks

Specimen Paper www.sqa.org.uk/pastpapers/findpastpaper.htm

Assignment Learners complete the assignment over an extended period of time and under some supervision. 90 marks



Progression Higher courses can stand alone or follow on from National 5 qualifications and may lead to Advanced Highers, the Scottish Baccalaureate and a range of qualifications within Further and Higher Education.



For course information, specimen question papers and past paper guidance visit:

Higher Design and Manufacture: www.sqa.org.uk/sqa/47927.html

Curriculum for Excellence Key Terms and Features Factfile

Education Scotland: <https://education.gov.scot/nationalqualifications>

Further Information for Parents and Learners Information on assessment, skills,

progression, revision resources and summaries of National Qualifications

www.parentforumscotland.org



the National Parent Forum of Scotland

www.parentforumscotland.org

enquiries@parentforumscotland.org

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