

HIGHERS IN A NUTSHELL

The National Parent Forum of Scotland Summary of Higher Design and Manufacture

DESIGN AND
MANUFACTURE
TECHNOLOGIES

CfE
HIGHER



**DESIGN
MATERIALS AND MANUFACTURING**



ASSIGNMENT + QUESTION PAPER



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

- To gain Higher Design and Manufacture, learners must pass the two Units and the Course Assessment (Assignment and Question Paper for 140 marks)
- Units are assessed as pass or fail by the school/centre and are quality assured by the SQA. Achievement of Units is recorded on the learner's qualifications certificate
- The SQA has provided examples of Unit assessments that teachers/lecturers can use as they are, or adapt to suit the needs of their learners
- The Course Assessment consists of an Assignment (70 marks) and a Question Paper (exam for 70 marks) which is in two sections (see below). The Assignment is marked internally and the Question Paper is marked externally by the SQA
- Higher Design and Manufacture is graded from A to D or as No Award.



Question Paper	Section 1: Design process, factors, materials, production Section 2: Questions on the whole course	2 hours 70 marks
Specimen Paper Assignment	www.sqa.org.uk/files_ccc/DesignandManufactureSQPH.pdf A design brief to make a product with its development shown in a portfolio.	70 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](#)

www.educationscotland.gov.uk/Images/CfEFactfileOverview_tcm4-665983.pdf

[Further Information for Parents and Learners](#) Information on assessment, skills, progression, revision resources and summaries of National Qualifications

www.parentforumscotland.org



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