

What will I study?

Unit 1. Design: Candidates study the design process from brief to design proposal. This helps you develop skills in initiating, developing, articulating, and communicating design proposals. You will gain an understanding of the design/make/test process and the importance of evaluating and resolving design proposals on an ongoing basis. Candidates also develop an understanding of the factors that influence the design of products.

Unit 2. Materials and Manufacture: Candidates study the manufacture of prototypes and products. This helps you develop practical skills in the design/make/test process. You gain an appreciation of the properties and uses of materials, as well as a range of manufacturing processes and techniques, allowing you to evaluate and refine design and manufacturing solutions. Candidates also gain an understanding of commercial manufacture.

Note: Units are awarded individually at National 4 level. National 5 has no individual units awarded within the course. Topics are covered to prepare candidates with the knowledge and skills for a course assignment.

What skills will I develop?

- Creativity in a technological context.
- Knowledge and understanding of manufacturing processes and materials.
- Knowledge and understanding of commercial manufacture .
- Skills to communicate and develop design proposals.
- The ability to use modelling and manufacturing techniques to provide design solutions.
- Knowledge and understanding of the impact of a range of design and manufacturing technologies on our environment and society
- The ability to read drawings and diagrams.
- Planning and evaluation skills

How will I be assessed?

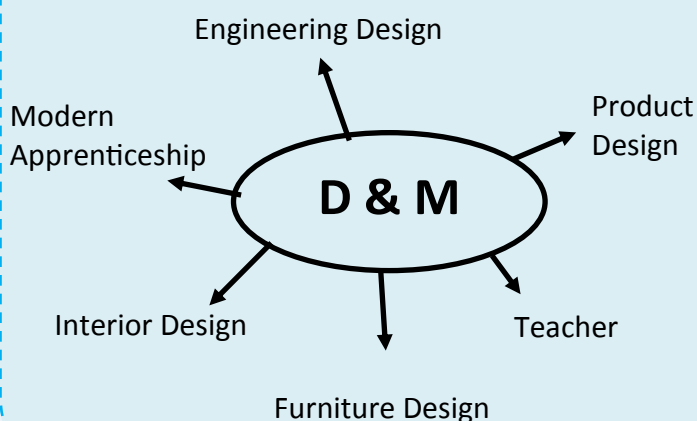
National 4

Units are assessed in school by class teachers. National 4 candidates also complete an **Added Value Assignment**. This is completed in school and marked by your teacher. All assessments are pass or fail based. To gain National 4 candidates must pass all units and the Added Value.

National 5

Candidates complete a 2 part assignment in school with a **design** element and a **practical** element. The design element is marked externally and the practical is marked by your class teachers. Candidates also sit an exam which is externally marked. Marks are added together for a final grade.

Possible Careers



What can I go on and study in fifth and sixth year?

National 4 → National 5 Design or National 4/5 related subject ie. Graphic Communication or practical subject.

National 5 → Higher Design and Manufacture. or a related subject ie. Graphic Communication or Practical subject.

Need more info? -

[Nationals In a Nutshell](#)

[My World of Work](#)