

DESIGN AND MANUFACTURE

Design & Manufacture introduces students to the multi-faceted and important world of product design and manufacturing. In the Course, learners are encouraged to exercise imagination, creativity and logical thinking. The Course thus provides a broad scope for personalisation and choice. The Course allows learners to broaden and deepen their skills base and to widen their horizons regarding a range of potential vocations and careers. It will provide opportunities to acquire and develop further the attributes and capabilities of the four capacities, including: creativity, flexibility and adaptability; enthusiasm and a willingness to learn; perseverance, independence and resilience; responsibility and reliability; and confidence and enterprise.

NATIONAL 4 & 5 DESIGN AND MANUFACTURE	
REQUIREMENTS	You must have completed Design and Manufacture in S3, or alternatively have taken either Art and Design or Practical Craft Skills in S3. If you do not have these subjects from S3, you must seek permission from the Faculty PT.
COURSE CONTENT	<p>Design and Manufacture is made up of two units. There will also be an internally assessed added value unit (N4), which is extended to form the basis of a course assessment for (N5).</p> <p>Design: Students will develop a concept from a given design brief through idea generation, research, graphics and modelling techniques. Evaluation of existing products will also form part of this unit.</p> <p>Materials and Manufacturing: Students will manufacture both models and prototypes. This unit is designed to enable the learner to develop knowledge of the impact of materials and manufacturing of design and the environment.</p> <p>Added Value unit: Design and Manufacturing Project.</p> <p>For further information on what the course entails, please use the link below: National 5 Design and Manufacture course</p>
ASSESSMENT	The course will be assessed by a combination of an assignment and an externally assessed question paper.
PROGRESSION / NEXT STEPS	This course is currently only available up to National 5. However, you may wish to progress onto Art and Design, Graphic Communication or Practical Woodwork/Metalwork. There are a wide range of relevant career paths and students often progress into: Engineering and Construction, Product innovation, Designers, Architecture, Interior design. See the link below for further careers information: National 5 Design and Manufacture