

SUBJECT NAME: PRACTICAL CRAFT SKILLS/DESIGN & TECHNOLOGY

AWARD RECEIVED NATIONAL 3

This course leads to a National 3 award in both the ***Practical Craft Skills*** and ***Design & Technology*** courses. It provides opportunities for you to develop and enhance your practical creativity and practical problem-solving skills, and to gain an appreciation of safe working practices in the workshop.

The course enables you to develop:

- develop skills in producing and interpreting sketches, drawings and diagrams
- develop skills in practical model making and construction to test and evaluate ideas and concepts
- develop knowledge of basic engineering ideas
- identify, select and use a range of workshop tools, equipment and materials
- develop basic skills in measuring & marking as well as skills in cutting, shaping, fixing and joining materials
- apply safe working practices in a workshop or similar environment
- take account of good practice regarding sustainability and recycling

ENTRY LEVEL – What do I need to do it?

The National 3 course will allow you to develop your knowledge and abilities within the practical and design technologies, building on the craft and design skills you have developed in S1 core technologies and the S2-3 elective courses in Graphics, Design & Manufacture and/or Practical & Vocational Skills. Ideally you will have completed one of the S2-3 elective courses, however, those students who have not followed an elective course in S2-3, but are keen to explore and develop their practical skills in are welcome to join the course.

COURSE CONTENT – What will I learn?

The course is a broad-based qualification for learners with an interest in craft design and technology. You will be provided with opportunities to develop and enhance your physical skills, design skills, practical creativity, practical problem-solving skills and gain an appreciation of safe working practices in the CDT department.

National 3 Practical Craft Skills consists of three units:

Working with tools - You will develop knowledge of a range of common tools and equipment used in woodworking and metalworking.

Working with materials - You will develop skills in working with different woodworking and metalworking materials.

Making an item - You will develop further skills in making and finishing of an item from wood, metal or a combination of these materials.

National3 Design & Technology also consists of three units:

Graphics for Design - You will develop skills in producing drawings, sketches and diagrams to support the design process.

Designing and Modelling - You will follow a simple design process to design, model and manufacture a solution to a design brief.

Constructing and Testing - You will develop an understanding of structures and mechanisms to help solve simple engineering problems.

TEACHING METHODS – What will I do?

The course is by its nature highly practical, exploratory and experiential. and you will spend your time in the design room, wood and metal workshops developing your design and practical skills through a number of tasks.

Other teaching methods may include:

- Class discussion
- Folio work
- Written logbook tasks
- Group work

ASSESSMENT

At National 3 level, you will be expected to complete and submit a 'unit project' for each of the units of work, this will be supported by a folio of design work and/or a log of your activities. This log will also include tool and material identification tasks required for the assessment of the practical units.

Assessment tasks will likely be drawn from one or more of the following practical models*:

Practical Craft Skills: models may include pasta measurer, music player dock, chalk-board frame, tea-light bracket, test-tube vase and toy truck.

Design & Technology: Models and task may include kitchen utensil, spatula, graphics and DTP project, catapult/trebuchet modelling

There is no externally assessed component to the National 3 Practical Craft Skills and Design & Technology courses and you will be given the opportunity to complete all units throughout the course.

HOMEWORK

There is no formal homework associated with his course, however, due to the practical nature of the course, it is expected that students who are absent from workshop periods attend catch-up sessions that the department will arrange to allow you to complete this work should you require it.

PROGRESSION IN THE SENIOR PHASE

Success at National 3 Practical Craft Skills may allow you to progress to the National 4 Practical Woodworking course.

Success at National 3 Design & Technology may allow you to progress to National 4 Design & Manufacture and/or Graphic Communication.

COURSE COSTS

The National 3 Practical Craft Skills course has a cost of £25 associated with it contributing towards the cost of resistant materials consumed within the course.

*Note: Practical models are subject to change