



# Thomas Telford School

## General Certificate of Education Applied ICT Single Award

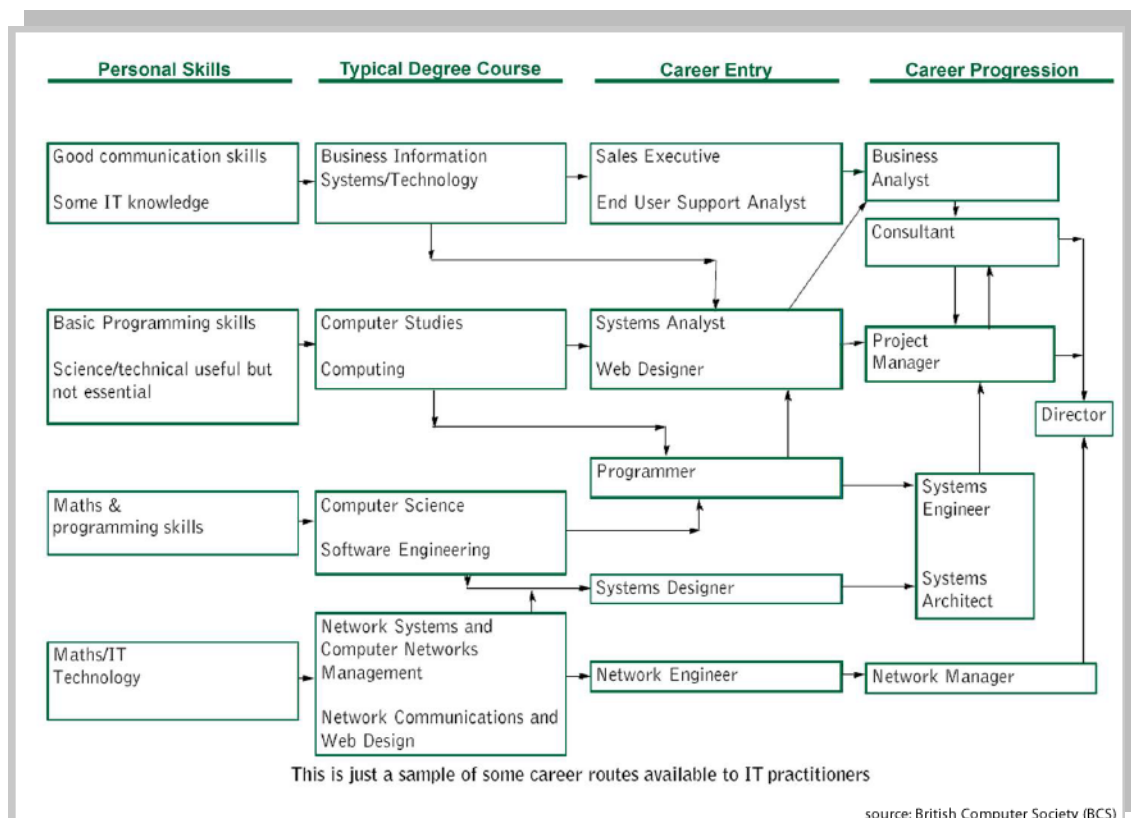
### WHY APPLIED ICT?

This course is a 'must-have' for every Sixth Form student. It provides the skills required for study at Thomas Telford School and also for university, college or work. This exciting new course is also 'all electronic'! ICT is a fast moving area and, as such, needs to attract people to it that are fast moving and dynamic.

A course in ICT will open doors in both an academic or career based pathway. All areas of employment demand every-increasing ICT skills to be held by its members and a qualification that is both skill and theory based can offer the foundation for further study at University or careers in public and private sector organisations in area such as:

E-Commerce	Business Administration	Network Management
Finance	Software Engineering	Systems Analysis
Marketing	Web Development	Web Administration
Programming Knowledge Management		Telecommunications

All students have the opportunity to benefit from a high quality industrial placement as an integral part of their course. This course equips all students with the skills to use ICT effectively in the twenty-first century.



## Progression

There are many jobs in ICT:

- Jobs where an interest in using ICT software (e.g. Word / Excel) is useful.

Word Processor	Data Inputter
Secretary	Office Administrator
Hotel Receptionist	Call Centre Assistant
Tyre fitter	Shop assistant

- Jobs where you will need high levels of skill in using software.

Software Helpdesk Advisor	ICT Trainer
College Lecturer	ICT Support Assistant

- Jobs where you will be expected to use specialist software.

CAD Draughtsman	Database Operations Manager
Graphic Designer	Web Designer
Medical Physicist	Operational Researcher

- Jobs in building or maintaining hardware need good technical skills.

ICT Technician	Network Manager
Maintenance Technician	Computer Service Technician

- Jobs in developing or programming software require good programming skills. You will need to know high level programming languages (e.g. C++) or specialist languages (e.g. HTML).

Multimedia Designer	Software Developer
Systems Analyst	Computer Programmer

## OCR Syllabus:

**SINGLE AWARD** You will study six of the following units:

### AS UNITS

#### **Unit 1: The Information Age (*E-Portfolio unit*)**

In this unit you will learn about the information communication technologies that enable people to access and exchange information and to carry out transactions anytime, anywhere.

#### **Unit 2: The Digital Economy (*E-Portfolio unit*)**

In this unit, you will investigate how organisations are responding to the pressures of the e-marketplace by using transactional websites to present their products and services, gather information and provide a personalised service.

#### **Unit 3: The Knowledge Worker (*Examination unit*)**

In this unit you will learn how to problem solve! You will analyse an existing spreadsheet model and use it to produce an ICT solution to a real problem. You will learn that there are often many factors to consider when making a decision and that part of the process is to identify gaps in your knowledge.

### A2 UNITS

#### **Unit 7: Using Database Software (Compulsory) (*Examination unit*)**

In this unit you will develop your knowledge of, and skills in using, databases further. You will learn the principles of data modelling and sound database design, and will use relational database software to build working database systems capable of storing large quantities of data and of handling both routine and one-off requests for information.

#### **Unit 8: Managing ICT Projects (Compulsory) (*E-Portfolio unit*)**

You will be able to put into practice what you have learnt by setting up and running a small-scale software project. You will have to draw upon the knowledge and skills you have learned throughout the course in order to plan for and produce the required software product.

#### **Unit 10: Using Multimedia Software (Optional) (*E-Portfolio unit*)**

In this unit you will increase your understanding of the features and possibilities of multimedia tools so that you can combine them to produce well-designed multimedia products that communicate your ideas effectively.

#### **Unit 11: Using Spreadsheet Software (Optional) (*E-Portfolio unit*)**

In Unit 3 you used spreadsheet models to investigate alternatives and make decisions. In this unit you will learn the skills and techniques needed to design and create technically complex spreadsheets yourself.

#### **Unit 12: Customising Applications (Optional) (*E-Portfolio unit*)**

In this unit you will learn how to use an event-driven programming language such as Visual Basic for Applications (VBA) to enhance the existing functionality of applications software, enabling you to create applications with more scope and flexibility than is possible using readymade macros, forms