

Purpose Statement

Name of regulated qualification	
QAN: 601/7343/9	Title: Pearson BTEC Level 3 National Foundation Diploma Computing (510 GLH)

Overview**Computing**

Computing is concerned both with computers and computer systems – how they work and how they are designed, constructed, and used. The core study of computing encompasses programming languages, data structures, algorithms, and the underlying science of information and computation.

The influence of computing has been profound in shaping the world in which we now live. The use of technology is almost universal among UK businesses, and increasingly businesses are adopting strategic technologies to deliver new opportunities.

The professional, scientific and technical sector has shown the largest increase of all broad industry groups between 2012 and 2013, with a particularly large increase for this sector in London. Telecommunications has been the fastest growing part of the information economy sector; growing at 5.7 per cent per annum during the period from 2000 to 2013. There are approximately 1.3 million people working in technology specialist roles in the UK, and technology specialist employment is consistently increasing, growing by 6 per cent (71,000) in the year from 2013 to 2014 alone.

The UK is ranked second in the world for technological readiness by the World Economic Forum. Ongoing developments in the sector include the government commitment of £1.2 billion to extend superfast broadband to 95 per cent of UK premises by 2017.

Who is this qualification for?

The Pearson BTEC Level 3 National Foundation Diploma in Computing is equivalent in size to 1.5 A level qualifications and is designed to offer students exposure to a range of computing topics that will enhance their progression to higher education, probably in this sector, and ultimately to employment.

This qualification is intended as an Applied General qualification and is designed to be studied over one year.

Students wishing to take this qualification should have successfully completed a Level 2 programme of learning with GCSE or vocational qualifications.

What does the qualification cover?

The content of this qualification has been developed in consultation with academics to ensure that it incorporates the most up-to-date knowledge and skills to enable progression to higher education. In addition, employers and professional bodies have been consulted on the content development to confirm its relevance with current industry practice used in computing and related occupational disciplines.

Students have the opportunity to develop knowledge of and skills in computer science, computer systems and networks and social media in business, enabling them to progress to further study of the computing sector or other sectors.

Students study four mandatory units:

- Principles of Computer Science
- Fundamentals of Computer Systems
- IT Systems Security and Encryption
- Business Applications of Social Media.

Students have a choice of two option units from a range, including systems analysis and design, mobile apps development, digital graphics and animation and website development.

What could this qualification lead to?

Will the qualification support progression to further learning, if so, what to?

Students who have completed this qualification in a year may progress to further learning at Level 3, for example a second Foundation Diploma in a complementary sector, or to a larger size BTEC National in Computing.

The qualification is intended to carry UCAS points and is recognised by HE providers as contributing to the admission requirements to many relevant courses. When studied with other qualifications, such as AS and A levels, or another BTEC Foundation Diploma in a different or complementary subject area, such as mathematics, science or technology, the qualification provides an opportunity for students to progress to higher education on a range of BTEC Higher National, Foundation or Honours degree courses. Opportunities include:

- HNC Civil Engineering, when taken alongside a Pearson BTEC Level 3 National Foundation Diploma in Engineering or Construction
- FdSc in Game Development, when taken alongside, for example a Pearson BTEC Level 3 National Foundation Diploma in Creative Media Production
- FdSC Business Computing with Networking, when taken alongside, for example an A level in Business
- BSc (Hons) Information Management for Business, when taken alongside, for example a Pearson BTEC Level 3 National Foundation Diploma in Business
- BA (Hons) in Accounting and Finance, when taken alongside, for example A and AS levels in Mathematics and Economics.

Some university courses may require the achievement of specific units and students should always check the entry requirements for degree programmes at specific HE providers.

Will the qualification lead to employment, if so, in which job role and at which level?

The qualification is aimed at progression to higher education, but also enables students to develop the knowledge and skills needed for entry-level roles related to computing, including administrator, data entry clerk, technical service support and technical systems administration.

If there are larger and/or smaller versions of this qualification, or it is available at different skills levels, why should the student choose this one?

The **Pearson BTEC Level 3 National Foundation Diploma in Computing** is equivalent in size to 1.5 A levels. It is for students looking for a one-year course of full-time study, or alongside another area of study that contrasts or complements the Foundation Diploma in Computing over a two-year, full-time study programme.

The suite also includes the following qualifications.

The **Pearson BTEC Level 3 National Extended Certificate in Computing** is equivalent in size to 1 A level. It is for students interested in learning about the sector alongside other fields of study, with a view to progressing to a wide range of HE courses, but not necessarily in computing.

The **Pearson BTEC Level 3 National Extended Diploma in Computing** is the largest in the suite of BTEC Nationals in Computing. It is equivalent to 3 A levels and offers a breadth of study for students who want to focus on the computing sector at higher education before entering employment.

There are four Pearson BTEC Level 3 National Diplomas:

- Pearson BTEC Level 3 National Diploma in Computer Science
- Pearson BTEC Level 3 National Diploma in Computing for Creative Industries
- Pearson BTEC Level 3 National Diploma in Computer Systems and Network Management
- Pearson BTEC Level 3 National Diploma in Business Information Systems.

These qualifications are aimed at students who want to progress to employment. They focus on a particular area of study and are equivalent in size to 2 A levels. They typically make up two-thirds of a study programme and may be taken alongside other qualifications. The additional qualification(s) studied allow students either to give breadth to their study by choosing a contrasting subject, or to give their studies more focus by choosing a complementary subject.

For more detail of the other qualifications listed here, and the different progression opportunities they particularly support, please refer to their statements of purpose.

This qualification is supported by the following organisations

Higher education

University of Sheffield
University of Exeter
University of East Anglia
University of Huddersfield
University of Chichester
Kingston University
Southampton Solent University
University of Portsmouth
University of the West of England

Professional and trade bodies

BCS, The Chartered Institute for IT