Pearson
Level 3 BTEC National Extended Certificate
Information Technology

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Head of Technology, Computing and ICT

General course information – A new course starting in 2025

This qualification is designed for learners who are interested in an introduction to the study of creating IT systems to manage and share information, alongside other fields of study, with a view to progressing to a wide range of higher education courses, not necessarily in IT.

Equivalent in size to one A Level.

4 units

Unit number	Unit title	GLH	Type	How assessed
1	Information Technology Systems	120	Mandatory	External
2	Cyber Security and Incident Management	120	Mandatory	External
3	Website Development	60	Mandatory	Internal
4	Relational Database Development	60	Mandatory	Internal

65% of final grade

35% of final grade

Unit 1: Information Technology Systems

Write your name here

Surname | Other names

Pearson BTEC
Level 3 Nationals
Extended Certificate,
Foundation Diploma,
Diploma, Extended
Diploma

Centre Number | Learner Registration Number

Information Technology

Unit 1: Information Technology Systems

Thursday 25 January 2018 – Afternoon | Paper Reference
Time: 2 hours | **31760H**

You do not need any other materials. | Total Marks

Instructions
- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – there may be more space than you need.

Information
- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets
  – use this as a guide as to how much time to spend on each question.

Advice
- Read each question carefully before you start to answer it.

(b) Anderson has a home network.

He connects his laptop to his home network using an Ethernet cable rather than a wireless connection.

Explain **two** advantages to Anderson of using an Ethernet cable to connect to his laptop.

(6)

1 ....

2 ....

- Written examination set and marked by Pearson.
- 90 marks.
- Two hours.

Digital devices
Peripherals
Software
Choosing ICT Systems
Emerging Technologies
Transmitting data
Operating online
Protecting data
Moral and ethical and legal issues

Learners study the role of computer systems and the implications of their use in personal and professional situations.

Unit 2: Cyber Security and incident management

Write your name here

Surname		Other names	

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Cyber Security and Incident Management

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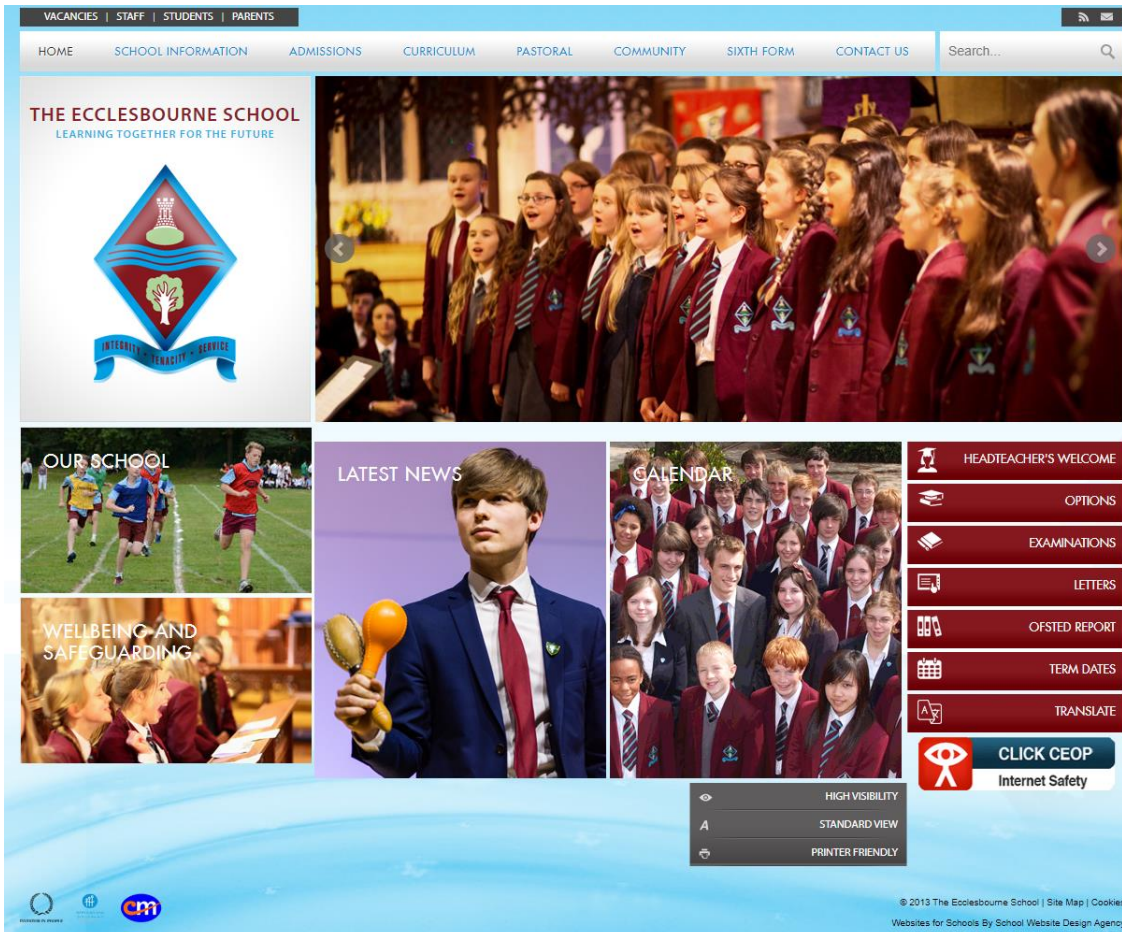
Advice
- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Threats
Vulnerabilities
Legal responsibilities
Security measures
Network types and
components
Policies and documentation
Forensic procedures

- Written examination set and marked by Pearson.
- 90 marks.
- Two hours.

Students will study cyber security threats and vulnerabilities, the methods used to protect organisations against threats and managing security

Unit 3: Website Development

Students will investigate fundamental principles in website development. They will design and develop a website in response to a client brief.

In this unit you will:

A   Understand how the principles of website development are used to create effective websites.

B   Explore website design skills and techniques to meet client requirements.

C   Develop a website to meet client requirements.

Create the structure

Add the style

Make it interactive

Unit 4: Relational Database Development (Databases)

In this unit you will:

A Understand how the principles of relational database models, data storage and normalisation are used to create effective relational database solutions.

B Design a relational database solution to meet client's requirements.

C Develop a relational database solution to meet client's requirements.

How does the qualification provide employability skills?

In the BTEC National units there are opportunities during the teaching and learning phase to give learners practice in developing employability skills. Where employability skills are referred to in this specification, we are generally referring to skills in the following three main categories:

- **cognitive and problem-solving skills:** use critical thinking, approach non-routine problems applying expert and creative solutions, use systems and technology
- **intrapersonal skills:** communicating, working collaboratively, negotiating and influencing, self-presentation
- **interpersonal skills:** self-management, adaptability and resilience, self-monitoring and development.

How does the qualification provide transferable knowledge and skills for higher education?

All BTEC Nationals provide transferable knowledge and skills that prepare learners for progression to university. The transferable skills that universities value include:

- the ability to learn independently
- the ability to research actively and methodically
- being able to give presentations and being active group members.

This qualification carries UCAS points and is recognised by higher education providers as meeting admission requirements to many relevant courses. As the content is equivalent in size to one A Level.