

Information Technology BTEC AAQ Extended Certificate – Preparatory Work 2025

The main purpose of this qualification is to study the fundamental knowledge of Information Technology covering the role and implications of using IT systems and cyber-security threats and how to manage attacks. Over the 2 years, you will also develop important skills for creating websites to meet a specific purpose and to manage data through the development of a relational database solution.

The aim is to prepare you for progression to higher levels of study (not necessarily in IT), taking on an apprenticeship, or employment. Throughout the course you will be expected to use skills that are highly sought after and valued by employers, such as organisation, planning, problem-solving and independent study.

There are four units studied over two years, and your assessment will be through external examination and internal assessment.

Information Technology Systems (examined unit year 1), Website Development (internally assessed, year 1), Cyber Security and Incident Management (examined unit year 2), Relational Database Development (internally assessed, year 2).

- 66% is assessed through external assessment involving two written examinations.
- 34% of the work is assessed through internal assessment of (project-based) exam board set briefs.
- Final grades of Pass, Merit, Distinction or Distinction* are awarded.

To start you off and give you an insight into the course content you are required to complete the following tasks and submit your document in the first lesson. We will submit the document/photo of the document electronically in the lesson.

Preparatory Tasks

The use of AI in assessments is not permitted by exam boards. You must always correctly reference sources of information. Look up the correct way to reference your research.

Task 1

Explain in your own words what these command words mean:

Describe
Explain
Justify
Evaluate

Task 2

Research these terms for Relational Databases:

Entity
Attribute
ERD
Database Relationship
Primary Key
Foreign Key
Composite Key

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Task 3

List and explain the impact of 3 Cyber Security Breaches that have happened in the UK in the last 5 years.

What advice would you give to an organization on preventative measures?

Task 4

Create a simple webpage using HTML code to demonstrate any HTML code you understand and can use.

Possible Sources of information:

BBC Bitesize

http://www.bbc.co.uk/bitesize/ks3/english/writing/inform_explain_describe/revision/2/

<http://www.bbc.co.uk/guides/z8yk87h>

Tech Terms <https://techterms.com/definition/database>

We will have electronic copies of the textbook that supports the course when it is released by the exam board. Currently the older version is available and covers most of the course, the details are:

'BTEC National Information Technology Student Book for the 2016 specification' Pearson ISBN 978- 1-292-14041-4