

What you need to know...

Unit 1 Exam Preparation

Information Technology Systems

External assessment (27%)
Marks 90 / 1.45 hrs

Pearson BTEC Level 3 National Extended Certificate in Information
Technology (360 GLH) 601/7575/8

Unit 1 Exam Preparation

Topic: Role of the computer and the implications of use

Show how you have developed understanding of

- the relationships between IT systems hardware and software,
- the way systems work individually and together,
- the relationship between the user and the system
- use of IT systems,
- issues and their impact on organisations and individuals.

Complete the task using **knowledge and understanding** from studies of the sector and apply both transferable and specialist knowledge and skills.

Unit 1 Exam Preparation

Assessment

AO1 Demonstrate knowledge and understanding of information technology terms, standards, concepts and processes

Command words: complete, draw, give, identify, name, state

Marks: ranges from 1 to 6 marks

AO2 Apply knowledge and understanding of information technology terms, standards, concepts and processes

Command words: calculate, complete, demonstrate, describe, draw, explain, produce.

Marks: ranges from 1 to 10 marks

Unit 1 Exam Preparation

Assessment

AO3 Select and use information technologies and procedures to explore likely outcomes and find solutions to problems in context

Command words: calculate, demonstrate, develop, explain, produce.

Marks: ranges from 1 to 6 marks

AO4 Analyse and evaluate information, technologies and procedures in order to recommend and justify solutions to IT problems.

Command words: analyse, demonstrate, discuss, produce, write.

Marks: ranges from 6 to 12 marks

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Assessment

A05 Make connections between the application of technologies, procedures, outcomes and solutions to resolve IT problems

Command words: evaluate, produce, write

Marks: ranges from 6 to 12 marks

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Assessment Area Context

A- Digital Devices in IT Systems;

The concepts and implications of the use of, and relationships among, the devices that form IT systems.

B Transmitting data;

The concepts, process and implications of transferring data within and between IT systems.

C Operating online

The implications for individuals and organisations of using online IT systems.

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Assessment Area Context

D Protecting data and information

The issues and implications of storing and transmitting information in digital form.

E Impact of IT systems

The uses, issues and implications of IT systems and their impact on individuals and organisations.

F Issues

The concepts, impacts and implications of issues resulting from the use of IT systems.

Unit 1 Exam Preparation

Grade Descriptors

To achieve a grade, a learner is expected to demonstrate these attributes across the essential content of the unit.

The principle of best fit will apply in awarding grades.

Unit 1 Exam Preparation

Grade Descriptors

Level 3 Distinction

Learners are able to analyse complex information, data and situations, in vocational contexts, in order to draw conclusions and make valid observations. They can synthesise their knowledge and understanding of IT systems to deconstruct complex problems, drawing on various sources of information to develop effective solutions. Learners can evaluate the effectiveness of IT systems and make justified recommendations for further developments and future actions.

They can make valid, justified judgements on the impact of IT on individuals, organisations and wider society.

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Grade Descriptors

Level 3 Pass

Learners are able to apply knowledge and understanding of key information technology concepts to a range of familiar vocational contexts. They can apply knowledge and understanding of IT systems to deconstruct problems in common situations and apply standard IT conventions to produce solutions with supporting reasoning. Learners can identify the impact of effective and ineffective uses of IT systems and recommend ways in which IT can be developed and/or improved.

They can explore and make judgements on the impact of the use of IT on individuals and organisations.

Unit 1 Exam Preparation

Keywords

Command or term	Definition
Analyse	Learners examine in detail a scenario or problem to discover its meaning or essential features. Learners will break down the problem into its parts and show how they inter-relate. There is no requirement for any conclusion.
Assess	Learners give careful consideration to all the factors or events that apply and identify which are the most important or relevant. Make a judgement on the importance of something.

Unit 1 Exam Preparation

Keywords

Command or term	Definition
Analyse	Learners apply some form of mathematical or computational process.
Assess	Learners complete a diagram or process. Can apply to problems/solutions of varying complexity.
Demonstrate	Learners illustrate and explain how an identified computer system or process functions. May take the form of an extended writing response, a diagram or a combination of the two.

Unit 1 Exam Preparation

Keywords

Command or term	Definition
Identify	Learners assess factual information, typically when making use of given stimuli. Requires a single-word or short-sentence answer.
Produce	Learners provide a solution that applies established constructs to a given computing problem.
State , Name or Give	Learners assess factual information. Requires a single-word or short-sentence answer.

Unit 1 Exam Preparation

Keywords

Command or term	Definition
Evaluate	Learners review and synthesise information to provide a supported judgement about the topic or problem. Typically, a conclusion will be required.
Write	Learners produce a solution, or mechanism used as part of, a solution to a given computing problem.
Discuss	Investigate a problems or scenario showing reasoning or argument

https://www.youtube.com/watch?v=MR2ntdZW_A

[Link to L.A check list](#)

A3 Computer software in an IT system

A3.1 Types of operating system

A3.2 The role of the operating system in managing

A3.3 Factors affecting the choice and use of user interfaces

A3.4 Factors affecting the choice of operating system

A3.5 Factors affecting use and performance of an operating system

A3.6 Utility software – can identify and describe them

A3.7 Application software – can identify and describe them

A3.8 Know the principles and implications of open source and proprietary operating systems and software and can describe the difference