



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

GCSE in Applied Information and Communication Technology (Double Award)

Unit 2: ICT in Organisations (3850/2)

Portfolio Marking Grid

This marking grid is issued to centres to provide further guidance to teachers on the allocation of marks for Unit 2. Its use by centres when marking candidates' work is optional and centres may choose to use a document of their own design, however if a centre can clearly show how marks have been awarded then the moderator will be able to provide a more detailed feedback report. The grid is **not** intended as a replacement for the Candidate Record Form, which must be completed for each candidate.

Candidate name:

Centre number:

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Candidate number:

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Total Mark (Maximum 100):

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Dr Michael Cresswell Director General

Assessment Requirements

You must produce

- a review and report describing how and why organisations use ICT systems for the given purposes. You should include details of the information requirements of the ICT systems, the associated flow of information between and within organisations, the impact of ICT systems on the functions of organisations;
- a review or report covering the specification that describes the purpose and characteristics of the main hardware components of an ICT system;
- an ICT system designed to meet the needs of a particular organisation. You should include dataflow diagrams, the design specification, user documentation and commentary on the development;
- evidence of evaluation and testing.

9.4 Assessment Criteria

Description of ICT Systems (up to 23 marks)					
A 0 - 5 marks Candidate produces a basic description of two features of the use of ICT by two contrasting organisations	B 6 - 9 marks Candidate produces a more detailed description of three features of the use of ICT by two contrasting organisations and describes briefly two advantages and two disadvantages of these systems	C 10 - 17 marks Candidate produces a very detailed description of the main features of the use of ICT including two advantages and two disadvantages, and the impact of ICT systems within organisations, referring to working practices, cost and also information and processing characteristics, using three different sources	D 18 - 23 marks Candidate produces a very detailed and well-structured description of the main features of ICT use, including advantages and disadvantages, impact, details of information and processing characteristics of the chosen systems, referring to verifying data, security and robustness, using a three sources, showing evidence of validation		
Hardware (up to 18 marks)					
E 0 - 6 marks Candidate produces a basic description of two hardware features of ICT systems.	F 7 - 12 marks Candidate produces a more detailed description of three main hardware features of ICT systems including the ways in which components are connected	G 13 - 18 marks Candidate produces a detailed and well-structured description of hardware features that determine overall efficiency and cost of ICT systems			
Design of ICT System (up to 35 marks)					
H 0 - 4 marks Candidate produces a basic description of the design for the ICT system, including purpose, benefits and information requirements	I 5 - 9 marks Candidate describes in more detail the design for the ICT system, and represents system in an appropriate graphic manner.	J 10 - 16 marks Candidate produces a very detailed description of the design for the ICT system, represents system graphically and models system using ICT.	K 17 - 24 marks Candidate describes in detail, represents graphically and models ICT system, including evidence of operation of system and commentary on the system development	L 25 - 28 marks Candidate describes in detail and models ICT system supported by evidence of development and describes critical success factors for system	M 29 - 35 marks Candidate describes in detail data types and sources, processing requirements and outputs, illustrating solution with a large data set
Evaluation and Testing of ICT System (up to 24 marks)					
N 0 - 6 marks Candidate provides evidence of refinements to system, including results of testing with a range of data, and describes efficiency and robustness of solution	O 7 - 10 marks Candidate produces documentation for system written in a style appropriate to the intended user	P 11 - 14 marks Candidate tests system against all practical initial conditions, and produces systematic documentation of results.	Q 15 - 19 marks Candidate provides evaluation of system, including evidence from third party.	R 20 - 24 marks Candidate provides detailed evaluation of system and also of user documentation including third party feedback.	

Description of ICT Systems (23 Marks)

Candidate produces a basic description of two features of the use of ICT by two contrasting organisations (5 marks)		A =	
A1	Basic description of one organisation (up to 2 marks)		
A2	Basic description of second organisation (up to 2 marks)		
A3	Additional mark if organisations are appropriate and contrasting (1 mark)		

Candidate produces a more detailed description of three features of the use of ICT by two contrasting organisations and describes briefly two advantages and two disadvantages of these systems (4 marks)		B =	
B1	Basic description of third feature of the use of ICT (1 mark for each organisation, up to 2 marks)		
B2	Advantages and disadvantages of the systems (up to 2 marks)		

Candidate produces a very detailed description of the main features of the use of ICT including two advantages and two disadvantages, and the impact of ICT systems within organisations, referring to working practices, cost and also information and processing characteristics, using three different sources (8 marks)		C =	
C1	General details of impact on organisations (1 mark)		
C2	Impact on working practices (up to 2 marks)		
C3	Details of cost (1 mark)		
C4	Details of information and processing characteristics (up to 2 marks)		
C5	Evidence of use of three types of sources (up to 2 marks)		

Candidate produces a very detailed and well-structured description of the main features of ICT use, including advantages and disadvantages, impact, details of information and processing characteristics of the chosen systems, referring to verifying data, security and robustness, using three sources, showing evidence of validation (6 marks)		D =	
D1	Description is detailed and well-structured (up to 2 marks)		
D2	Description of verification of data by organisation (1 mark)		
D3	Description of security of data (1 mark)		
D4	Description of robustness of data (1 mark)		
D5	One source has been validated (1 mark)		

Hardware (18 Marks)

Candidate produces a basic description of two hardware features of ICT systems (6 marks)		E =	
E1	Two features identified (1 mark per feature, up to 2 marks)		
E2	Two features described (1 mark per feature, up to 2 marks)		
E3	Descriptions include technical details (1 mark per feature, up to 2 marks)		

Candidate produces a more detailed description of three main hardware features of ICT systems including the ways in which components are connected (6 marks)		F =	
F1	More detailed description of any three devices that include a good degree of technical description (1 mark for each feature, up to 3 marks)		
F2	Descriptions of ways in which components can be connected (up to 3 marks)		

Candidate produces a detailed and well-structured description of hardware features that determine overall efficiency and cost of ICT systems (6 marks)		G =	
G1	Description is detailed and well-structured (up to 2 marks)		
G2	Details of features that relate to efficiency (up to 2 marks)		
G3	Details of features that relate to cost (up to 2 marks)		

Design of ICT System (35 Marks) *

Candidate produces a basic description of the design for the ICT system, including purpose, benefits and information requirements **(4 marks)**

H2	Details of purpose of system (1 mark)				
H3	Details of benefits of system (1 mark)				
H1	Basic description - text or diagrammatic (1 mark)				
H4	Details of information requirements of system (1 mark)				

Candidate describes in more detail the design for the ICT system **(3 marks)**

I1	More detailed description of the design of the ICT system (1 mark each for purpose, benefits and information requirements, up to 3 marks)				
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Candidate describes critical success factors for system **(4 marks)**

L1	Critical success factors/performance indicators are identified (up to 4 marks)				
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Candidate describes in detail data types and sources, processing requirements and outputs **(6 marks)**

M1	Details of data types (1 mark)				
M2	Details of sources of data (1 mark)				
M3	Details of processing requirements (up to 2 marks)				
M4	Details of output requirements (up to 2 marks)				

Candidate represents system in an appropriate graphic manner **(4 marks)**

I2	Attempt at a DFD (up to 2 marks)				
J1	Good DFD (2 marks) / DFD containing only a minor error (1 mark)				

Candidate describes in detail, represents graphically and models ICT system, including evidence of operation of system and commentary on the system development, and provides a large data set suitable to test the system **(13 marks)**

J3	Models system using ICT (up to 4 marks)				
K1	Evidence of operation of system (up to 4 marks)				
K2	Commentary on system development (up to 4 marks)				
M5	Large data set – suitable to test their system (1 mark)				

Candidate produces a very detailed description of the design for the ICT system **(1 mark)**

J2	Very detailed description of the design of the ICT system (1 mark)				
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* Items within this section have been rearranged for centres' convenience.

Evaluation and Testing of ICT System (24 Marks)*

Candidate provides evidence of refinements to system, with a range of data (2 marks)

N1	Evidence of refinements to system (1 mark)				
N3	Use of a range of data (1 mark)				

Candidate tests system against all practical initial conditions, including results of testing and produces systematic documentation of results (6 marks)

P1	Evidence of testing of system (up to 2 marks)				
N2	Results of testing (up to 2 marks)				
P2	Systematic documentation of results (up to 2 marks)				

Candidate describes efficiency and robustness of solution (2 marks)

N4	Description of efficiency of solution (1 mark)				
N5	Description of robustness of solution (1 mark)				

Candidate provides evaluation of the system including evidence from third party (6 marks)

Q1	Evaluation of the system (up to 3 marks)				
R1	Detailed evaluation of the system (1 mark)				
Q2	Evidence from third party (up to 2 marks)				

Candidate produces documentation for system written in a style appropriate to the intended user (4 marks)

O1	Basic user guide produced (up to 2 marks)				
O2	More sophisticated/detailed user guide, including screen shots (1 mark)				
O3	User guide is appropriate to user (1 mark)				

Candidate provides an evaluation of user documentation including third party feedback (4 marks)

R2	Evaluation of the user documentation (up to 2 marks)				
R3	Third party feedback of user documentation (up to 2 marks)				

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