

GCE

Applied ICT

Unit G041: How Organisations Use ICT

Advanced Subsidiary GCE

Mark Scheme for June 2015

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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1. These are the annotations, (including abbreviations), including those used in scoris, which are used when marking

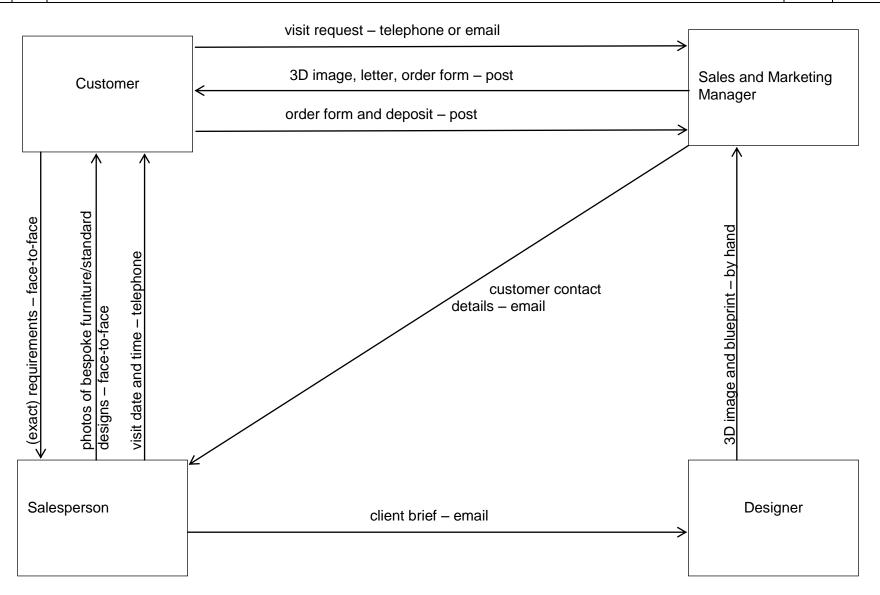
Annotation	Meaning			
٨	Something vital to the mark point has been omitted.			
BOD	Benefit of the doubt given.			
NBOD	Benefit of the doubt <u>not</u> given.			
CON	Candidate contradicts him/herself.			
NAQ	Candidate has not answered the question as set.			
MTP	Candidate has missed the point of the question.			
W	Candidate is working towards a mark but has not given enough to receive credit at this point.			
NE	Not enough for the candidate to receive credit.			
TV	Answer is too vague to receive credit.			
FTC	Follow-through credit. When an earlier wrong answer has been penalised, this may be used to show that credit can now be given to a part of the script which depends on that earlier wrong answer. This avoids penalising a candidate twice for the same error, but should only be used where specified by the PE .			
MAX	Shows that the maximum number of marks for a part-question or question has been awarded (even though the answer may contain further correct points).			
R	The point repeats one already awarded credit.			
JE	Candidate has just given enough to be awarded a mark.			

- 2. Here are the subject specific instructions for this question paper There are 100 marks available for this test. They are allocated as follows:
 - Tasks 2 and 3 30
 - Section A of the test paper 50
 - Section B of the test paper 20

BoW = Best of Wood

Task 2	Answer	Mark	Guidance
	 1 mark each for boxes labelled Customer Sales and Marketing Manager Salesperson Designer plus labelled arrows to show the following information flows (1 mark each) and methods (1 mark each) Max 15 marks. 	15	Accept 'face-to-face' or 'in person' for 'by hand' but not vice versa.
	 Arrows should only be awarded points if they are drawn to and from the correct boxes. Marks may be awarded for unconventional diagrams provided they isolate the senders and receivers of information. Do not award marks for flow diagrams or series of text boxes linked by arrows. Marks cannot be awarded for 'How' if the information is not identified/is incorrect but can be awarded if information is essentially correct but vague or incomplete. Labels should not be awarded marks if they are contained within the description of a process. If lines cross, mark labels as long as it is clear where each arrow goes Marks should only be awarded for labels that can be unambiguously linked to a single arrow. 		

Task	2	Answer	Mark	Guidance



Task 3	Answer				Guidance
				Content	Levels of response
	AO4 is assess	ed through this task.	15		Tiered response based on:
	AO4 Marks 3 2 1 The quality of through this tax Answers may in through this tax I are proposed to the proposed text of the proposed tex	Guidance A strength and a weakness in the method(s) used identified or suggestions for improving own performance. A strength or a weakness in the method(s) used identified. Some comment made on the method(s) used. written communication is assessed sk. include: oW eduction in number of skilled s needed, reducing wage bill onsistency in furniture produced and designs recision in cutting wood, so joints fit may be produced more quickly than	15	Content	•
	assemble	aftspeople may still be needed to the furniture be cost effective for producing designs			format. There may be occasional errors in spelling, grammar and punctuation. Any technical terms will be mainly correct.

Task 3	Answer	Marks		Guidance
			Content	Levels of response
	 may lose customers who want a hand-crafted piece of furniture Negative impacts on staff some carpenters may lose their jobs fitters and carpenters may require training to work alongside the CAD-CAM more pressure put on designers to get design right as CAM will produce exactly what they design/skilled carpenters can make adjustments if necessary carpenters may feel their skills are not being used Positive impacts on staff carpenters and fitters may learn new ICT skills, which they can use elsewhere fitters may be given greater responsibility to assemble the furniture safer working environment for carpenters as they do not need to use dangerous equipment, such as circular saws 		Content	L 1-4 Candidates will demonstrate a limited understanding of the task. Information may be a list of points, with little or no explanations or application to BoW. Information will be poorly expressed and there will be limited, if any, use of technical terms. Errors of grammar, punctuation and spelling may be intrusive. O marks Candidate has provided nothing worthy of credit.

SECTION A

Q	uestion	Answe	r/Indicative content	Mark	Guidance
1		 Research (1) plus two from: look for different types of wood look for new techniques test different woods try out new techniques 		3	If job title given, i.e. research staff, mark as TV but award marks for correct tasks 1 mark for job function plus 1 mark per point to max 2 for matching tasks.
2		 assigns a carpen furniture checks finished for requirements 	t from Sales and Marketing Manager ter and fitter to make piece of urniture matches design processing system/selects Y from	4	1 mark per point to max of 4 Accept Sales and Marketing Manager hands blueprint to Workshop Supervisor.
3	а	to record/specify the customer's requirements (1) so that the designer can create a <u>design</u> to match them (1)		2	Do not accept description of design brief.
	b	Type of information	Example	4	1 mark per point to max 4
		Dimensions	Height (120 cm), Width (90 cm), Depth (60 cm)		Examples given for Type of wood and Type of finish must be
		Type of furniture	e.g. table, wardrobe		one of those listed in the case study. Accept any sensible
		Type of wood	e.g. ash, beech		response for Type of furniture and Specific design
		Type of finish e.g. stained, limed	ů .		requirements. Accept 'none' for specific design
		Specific design requirements	e.g. hinges, handles		requirements. For finish accept lacquer, varnish, polished, oil, wax

Q	uesti	ion	Answer/Indicative content	Mark	Guidance
4	а		Method One from:	2	1 mark each to max 2 Data can only be awarded if method is correct.
	b	i	 mileage is found using the delivery address postcode and mapping software (mileage) multiplied by £1.50 	2	1 mark each to max 2
		ii	 VAT on price is calculated VAT on the delivery charge is calculated price, VAT on price, delivery charge, VAT on delivery charge are added together to give total amount of deposit paid deducted from the total 	4	1 mark per point to max 4 There must be a distinction between VAT on price and VAT on delivery charge, i.e. one or other must be qualified. Read whole answer. If price, VAT on price, delivery charge and VAT on delivery charge are all mentioned accept 'these are added together' for bullet point 3.
	С	i	invoice	1	
		ii	To inform the customer that their furniture is finished (1) and that they need to pay the balance / how much they have to pay (1)	2	Only mark if c(i) correct. To request payment (1)

Question	Answer/Indicative content	Mark	Guidance
5	Hardware: One from: • high specification computer (1 st) with a large monitor (1) • flat-bed plotter (1 st) connected as a local printer (1)	2	
	Software: CAD software (1 st) installed on computers used by designers/used (by designers) to create designs (1)	2	
	Input data: • type of wood and finish required (1 st) using drop-down list (1)	2	
	Processing: One from: converts drawing (1 st) to 3D wireframe (1) renders wireframe (1 st) using selected wood and finish (1)	2	
	Output: One from: • blueprint (1 st) used by Sales and Marketing Manager to calculate the price for making the piece of furniture / followed by carpenter and fitter to make piece of furniture / produced on flat bed plotter (1) • 3D image (1 st) of what the finished piece of furniture will look like / displayed on screen (1)	2	

C	uestion	Answer/Indicative content	Mark	Guidance
6	а	Two from: e.g.: stock levels out-of-date/inaccurate (1) because new stock must be manually recorded (1) wood and other items removed without being recorded (1) because carpenters/fitters need them urgently (1) stock levels not updated when stock removed (1) because carpenters/fitters take it without telling warehouse staff (1)	4	Up to 2 marks each to max of 4 Must be a weakness of the system and not a consequence.
	b	An explanation that includes: e.g.: ensure suppliers attach bar codes to all wood and other items (1) attach barcode readers to computers in the warehouse (1) so that barcodes can be scanned when new stock is received (1) to update the stock database automatically (1) place computer with barcode reader near the door from warehouse to workshop (1) so that carpenters/fitters scan barcodes on stock they remove (1)	6	Up to 6 marks for any suitable explanation. Must include both details of hardware and how it is used in BoW to gain maximum marks. Do not accept Just-in-time system unless it is explained based on how the stock level is recorded. Do not accept automatic re-ordering systems.

Question	Answer	Marks		Guidance
7			Content	Levels of response
	Answers may include: Benefits customers could make orders for standard designs directly via website sales from a wider geographical area where there are no salespeople Limitations difficult to order bespoke designs online customers may not provide required detail in client brief customers lack expertise of salesperson to know what is needed high cost of delivery for long distances may restrict orders to current area	6	Bands M and H should only be considered for benefits and limitations that relate directly to the scenario not general benefits and limitations of e-commerce	H 5-6 Candidates will show a clear understanding of the question and include a detailed and balanced discussion of both the specific benefits and limitations of BoW introducing e-commerce. A fully justified recommendation is made. M 3-4 Candidates will show some understanding of the question and include some discussion of the specific benefit(s) and limitation(s) of BoW introducing e-commerce. The discussion lacks detail and may be unbalanced. A justified recommendation is attempted. L 1-2 Candidates will demonstrate a limited understanding of the question. Information will be a list of points with little or no discussion. Any recommendation will be a statement with no attempt to justify it. O marks Candidate has provided nothing worthy of credit.

Section B

C	uestion	Answer	Mark	Guidance
8		Two from: e.g.: product code description quantity	2	Accept date of order/despatch but NOT date of delivery. Thank you note / returns document are NOT items of information.
9	а	because it is illegal to gain unauthorised access to computer material (hacking) (1) and to carry out unauthorised modification of computer material (viruses) (1)	2	Do not accept prevents Beware rewording question
	b	because the person could be anywhere in the world when they commit the offence (1) so may be difficult to find them / country they are in may not co-operat (1)	t	Accept any reasonable explanation providing it recognises that these can be long-distance crimes or dark net.

Question	Answer	Marks		Guidance
10			Content	Levels of response
	Answers may include consideration of recruitment advertising vacancies sending out/receiving application forms collating responses shortlisting applicants (in liaison with senior staff) organise interviews be part of interview panel send letters to successful/unsuccessful/applicants check references produce and send out contracts staff welfare handling requests for leave dealing with disciplinary matters arranging cover for staff absence keeping record of hours/wages organising pension contributions dealing with trade unions and staff organisations dealing with redundancies training organise staff appraisals maintain staff development plans keep records of staff training keep records of qualifications arrange for staff to attend training organise in-house training	6		H 5-6 Candidates will show a clear understanding of the question and provide a detailed description of the role of the HR department that includes a balanced coverage of the three main aspects. M 3-4 Candidates will show some understanding of the question and provide some description of the role of the HR department, which will focus on two or more aspects OR a detailed description of one aspect. L 1-2 Candidates will demonstrate a limited understanding of the question. Their answer may be a list of points with little or no description. O marks Candidate has provided nothing worthy of credit.

Question		Answer/Indicative content	Mark	Guidance
11	а	Any two mobile devices identified e.g. • mobile/smart phone • tablet • GPS Any two matching benefits explained e.g. • can keep customer informed if they are going to be late (1) because they can call/send SMS from anywhere (1) • can access most up-to-date prices/availability of products (1) because can access company server/VPN using 3G/wireless (1) • can find customers' premises more easily (1) because post code can be entered to find directions (1)	6	Need to take account of devices available at time of examination. Convergence of technology means that benefits may apply to more than one device but two different benefits must be given. Accept device name e.g. iPad Accept storage of data
	b	 Any one disadvantage explained e.g. may find it difficult to take a break (1) because always contactable (1) may have concerns over security of devices (1) because they may contain company sensitive data (1) 	2	Other possible disadvantages may include theft, damage and loss of signal/power.

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