GCE MARKING SCHEME

APPLIED ICT
AS/Advanced

JANUARY 2012

INTRODUCTION

The marking schemes which follow were those used by WJEC for the January 2012 examination in GCE APPLIED ICT. They were finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conferences were held shortly after the papers were taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conferences was to ensure that the marking schemes were interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conferences, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about these marking schemes.

AICT 1

PART A

① (a) *One primary source from whom he could gather useful information is a course delegate. Name another primary source Stephen could use.* 1

Potential/old customers
Hotel managers
Trainers

(b) *Stephen has decided to use an interview to gathering the information. Describe two benefits of this method of research.* 2 x [1]

Non-verbal communication
Ability to ask follow up questions

[Question total 3]

② *Describe two features or facilities of a spreadsheet application that make it suitable to carry out this type of analysis.* 2x[1 + 1]

Named feature or facility (0) + description (1) + expansion (1)

Examples:
The use of formulae and functions allows recalculation to be carried out.
The use of charts allowed clear presentation of findings
The use of pivot tables and charts to analyse and present the data
The use of 'what if' scenarios allows Safety First to investigate their data

[Question total 4]

③ *Using examples, describe two features or facilities that you would expect to find in a web authoring package.* 2x[1 + 1]

Named feature or facility (0) + description (1) + expansion (1)

Examples:
Frames/tables – to layout content on Web pages
Templates – to provide consistent layout/content on the web pages
Forms – to allow trainees/course participants to book onto courses
Navigation – buttons/hyperlinks to move from page to page
Setting page properties – for consistent layout of text.
Style sheets (CSS) – for consistent layout of text.
Embed multi-media – function on page when viewed.

[Question total 4]

| ④ | Describe two features or facilities of a database application that the office staff could use to handle these bookings efficiently. | 2 x[1 + 1] |

Named feature or facility (0) + description (1) + expansion (1)

Examples:
Related tables – to store and link course and delegate data
Data entry forms/validation – to reduce data entry errors
Search/query – to check how many delegates are booked onto a particular course etc
Calculations – in queries/reports to produce additional information such as the income from a particular course.

[Question total 4]

| ⑤ | Label the diagram to illustrate the information flows in the process. | [5] |

See diagram

All flows correct - 5 marks
8 or 9 flows – 4 marks
6 or 7 flows – 3 marks
4 or 5 flows – 2 marks
3 flows – 1 mark

[Question total 5]

| ⑥ | a) Describe the benefits to Safety First of the new trainers working from their own homes. | 2 x [1 + 1] |

Description of benefit + expansion

Examples:
Reduction of costs –
not having to provide office space for the trainers
not having to set up a new office in the Midlands

One benefit described well or two benefits described.

b) *Describe the disadvantages to the new trainers of working from their own homes.*
Description of disadvantage + expansion

Examples:
Social isolation – no direct contact with colleagues
Not able to collaborate with colleagues – unable to ask for help and advice
Lack of working environment – distractions.

[Question total 4]

| ⑦ | *Describe two other technologies the trainers could use to keep in touch and access the information that they need.* | 2 x [1 + 1] Or |
| | | |

Technology + expansion x 2
Or
Technology + extended expansion

[2+ 2]

Examples:
VPN – remote access to the company's network – can access data and own files
Mobile email – use of push technologies with smart phones
VOiP/Skype – use of Internet to meet
Video conferencing – only if well described with relevant purpose.

[Question total 4]

| ⑧ | *Describe two ways in which the trainers should ensure that the information is correctly stored and easy to access.* | |

Description of method + expansion

2 x [1 + 1]

Examples:
Folder/directory structures – use of folders and subfolders to store files in logical order
Use of meaningful filenames to indicate file content
Version control to ensure that they are using the latest information/version of the presentation.

[Question total 4]

⑨   *Describe in detail two potential threats to Safety First's data and*   [8]
the simple processes that Safety First could use to ensure that the
data is secure.

[Threat + expansion and process + expansion] x 2

Examples:
Natural Disaster

Backup and restore

Malicious damage

Virus/corruption

Antivirus software
Regularly run to check for viruses – clear indication of timescales
Regularly updated to ensure they will detect all viruses
Firewall
To prevent unauthorised people from accessing the
computer/network.

Candidates give a clear, coherent answer fully and accurately   [6 - 8]
describing and explaining all relevant sections.

Candidates describe methods used to secure data and can suggest   [3 – 5]
a limited range of methods, but responses lack clarity.

Candidates simply list a range of points or give a brief explanation   [1 – 2]
of methods or measures. The response lacks clarity and there are
significant errors in spelling, punctuation and grammar.

No appropriate response   [0]

[Question total 8]

PART B

Task 1 Human Resources	
Description Part a (12 Marks)	Mark
Create a database to store the given data Name must relate to Safety First	1 mark
Import the data	1 mark
Contact number as text 1 mark	1 mark
Use 2 tables	1 mark
One-to-many relationship On Trainer number	1 mark
Integrity enforced	1 mark
Trainer table Append/Make table query – 2 marks OR Table created by deletion – 1 mark Trainer – 7 records Course – 31 records	2 marks
Validation Lookup, Range, Input Mask	3 marks
Task 1 a – Total 11 marks	11 marks

Task 1 Human Resources – Part b (5 Marks)	
Description	Mark
Query – senior trainers	1 mark
Create memo – 1 mark Layout – 1 mark Information – 1 mark	3 marks
Mail merge	1 mark
Task 1 b– Total 5 Marks	5 marks

Task 1 Human Resources Part c (16 Marks)	
Description	Marks
Create query for all courses in December 1 mark – both tables 1 – mark criterion 1 mark operator	3 marks
Bonus for each course 1 mark field name 1 mark calculation (£5) Number of delegates*Bonus per delegate	2 marks
Report Address and Logo	1 mark
"December Training Delivered by", name On every sheet	1 mark
Format 'Bonus' to currency	1 mark
Correct page break	2 marks
For each trainer: Course number, Date of course, Number of Delegates, Bonus	2 marks
Total bonus for each trainer	1 mark
Total number of delegates	1 mark
Message (IIF statement)	2 marks
Task 1 c – Total 16 Marks	16 marks

Task 1 – Human Resources – Part d (3 Marks)	
Description	Mark
Reasons for validation	3 marks
Task 1 d- Total	3 marks

Task 2 Sales and Marketing	
Description Part a (22 Marks)	Mark
Create 3 pages Must have title for mark Training, Prices, Contact Us	3 marks
On each page: Logo – 1 mark. Slogan 1 mark.	2 marks
Links between pages (-1 per error, min 0)	2 marks
Training Page Image 1 – 1 mark. Training text – 1 mark	2 marks
Prices Page Image 2, image 3 – 1 mark Pricing text – 1 mark. Layout – 1 mark Image 4 – 1 mark. Hyperlink – 1 mark	5 marks
Contact Page Sub title "For further details please complete the form below" – 1 mark	1 mark
Contact Page – Form 4 fields – 1 mark Submit button – 1 mark Radio button – 1 mark List box – 1 mark	4 marks
Quality of layout	3 marks
Task 2 a- Total	22 marks

Task 2 Sales and Marketing – Part b (3 Marks)	
Description	Mark
Identify improvements to prototype	3 marks
Task 3 b- Total	3 marks

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