## Mark Scheme (Results) Summer 2010

GCE

# GCE Applied Information and Communication Technology 

(6953/ 01) Unit 3 - The Knowledge Worker

Edexcel is one of the leading examining and awarding bodies in the UK and throughout the world. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers.
Through a network of UK and overseas offices, Edexcel's centres receive the support they need to help them deliver their education and training programmes to learners.

For further information, please call our GCE line on 0844576 0025, our GCSE team on 0844576 0027, or visit our website at www.edexcel.com.

If you have any subject specific questions about the content of this Mark Scheme that require the help of a subject specialist, you may find our Ask The Expert email service helpful.

Ask The Expert can be accessed online at the following link:
http:// www.edexcel.com/ Aboutus/ contact-us/

Alternatively, you can speak directly to a subject specialist at Edexcel on our dedicated ICT telephone line: 08443722186 From outside the UK: +44 8443722186 Or email our Subject Advisor for ICT, directly at ICTSubjectAdvisor@edexcelexperts.co.uk

Summer 2010
Publications Code UA023480
All the material in this publication is copyright
© Edexcel Ltd 2010

## General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.


## Applied GCE ICT Unit 3 - Mark Scheme - J une 2010

| Activity |  | ANSWER | POSS. MARK | MAX |
| :---: | :---: | :---: | :---: | :---: |
| Activity 1 |  | Understanding the problem |  |  |
|  |  | Any 10 of |  |  |
|  | A1 | British Basketball League (BBL) Southern Division basketball | 1 |  |
|  | A2 | Different day for each age groups | 1 |  |
|  | A3 | Boys and girls on same day | 1 |  |
|  | A4 | Collecting players for training session | 1 |  |
|  | A5 | 15 seats available on each mini-bus (+driver) | 1 |  |
|  | A6 | 4 mini-buses | 1 |  |
|  | A7 | 30 people each session to transport / (15 boys \& 15 girls) | 1 |  |
|  | A8 | Sessions start at 12:30 | 1 |  |
|  | A9 | Sign-in at 12 | 1 |  |
|  | A10 | Sessions at Crawley | 1 |  |
|  | A11 | Pickups at 14 places / 14 teams in league | 1 |  |
|  | A12 | Teams can supply any number of players | 1 |  |
|  | A13 | Mini-bus to wait for 5 minutes | 1 |  |
|  | A14 | Two sources of data | 1 |  |
|  |  |  |  | 10 |
|  |  | Award marks if somewhere in the decisions it implies more than 1 minibus |  |  |
|  | B1 | Which mini-buses make which stops / which clubs they are going to | 1 |  |
|  | B2 | Routes taken / order of stops/ times of stops | 1 |  |
|  | B3 | Start times | 1 |  |
|  |  | (number of people at each stop is not a decision) |  | 3 |
|  |  |  |  |  |
|  |  | Total Marks for Activity 1 |  | 13 |

$\left.\begin{array}{|l|l|l|l|l|l|}\hline \text { Activity 2 } & & \text { Sources of Information } \\ \text { Al -All marks relate to the data not the actual journey } \\ & & & \\ \hline & \text { Any 5 of }\end{array}\right)$

| Activity 3 |  | Computer Modelling |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Import Data |  |  |
|  | A1 | Worksheets created | 1,1 |  |
|  | A2 | Data Imported correctly AA (67, 115, 130) MM ( $78,121,135)$ | 1,1 |  |
|  | A3 | Suitable names for worksheet | 1,1 |  |
|  |  |  |  | 6 |
|  |  | Timings (Formulae) |  |  |
|  |  | Print: columns A-D, rows 3-18 |  |  |
|  |  | Formula : B4 $=\mathrm{MAX}$ (multi! $\mathrm{B} 2, \mathrm{AA}!\mathrm{B} 2)$ or similar |  |  |
|  | B1 | Correct cell from new AA worksheet | 1 |  |
|  | B2 | Correct cell from new Multimaps worksheet | 1 |  |
|  | B3 | Biggest value used (If or Max function) | 1 |  |
|  | B4 | Replicated correctly (must use at least one datasheet) | 1 |  |
|  |  |  |  | 4 |
|  |  | Timetable (Formulae) |  |  |
|  |  | Printout 1Depart/ stop2 in top row (E-F) |  |  |
|  |  | $\Rightarrow \mathrm{F}(\mathrm{C} 4=\mathrm{A} 4, \mathrm{D} 4, \mathrm{D} 4+5 /(24 * 60))$ or similar with different ways of adding 5 minutes (see C5) |  |  |
|  | C1 | If Statement used | 1 |  |
|  | C2 | Comparison C4 and A4 or reverse | 1 |  |
|  | C3 | If same D4 (B4) | 1 |  |
|  | C4 | If not same D4 + | 1 |  |
|  | C5 | 5 minutes value correct eg. time $(0,5,0)$ or "00:05:00" or $5 / 24 * 60$ or $5 / 1440$ | 1 |  |
|  | C6 | if correct formula in E4 Sum not used | 1 |  |
|  | C7 | Replicated only if correct formula in E4 | 1 |  |
|  |  | printout 2 depart/ depart in top row (H+K) |  |  |
|  |  | H4 $=\mathrm{F}$ (F4 $=$ C4, G4, G4+5/ ( $60 * 24$ ) |  |  |
|  |  | K4 $=1 \mathrm{~F}(14 * F 4, \mathrm{~J} 4, \mathrm{~J} 4+5 /(24 * 60)$ ) |  |  |
|  | C8 | Column H and K correct | 1 |  |
|  | C9 | Column H and K only printed on 1 sheet | 1 |  |
|  |  |  |  | 9 |
|  |  | Teams (Formula) Print: Columns B-E, rows 2-16 |  |  |
|  | D1 | Correct formula in cell E3 ( $=$ C3+D3) or $=$ SUM (C3, D3) (Accept Sum if : used) | 1 |  |
|  | D2 | Formula correctly replicated if working formula | 1 |  |
|  |  |  |  | 2 |
|  |  | Printouts |  |  |
|  | E1 | All required printouts, no extras or missing sheets | 1 |  |
|  | E2 | In right order, no extras or missing sheets | 1 |  |
|  | E3 | Column headings on all (must be at least 5 sheets) | 1 |  |
|  | E4 | Row headings on all (must be at least 5 sheets) | 1 |  |
|  | E5 | Gridlines on all (must be at least 5 sheets) | 1 |  |
|  | E6 | Correct header \& footer | 1 |  |
|  | E7 | Correct rows printed (must be at least 5 sheets) | 1 |  |


|  | E8 | Correct columns printed (must be at least 5 sheets including <br> H-K of timetable)) | $\mathbf{1}$ |  |
| :--- | :--- | :--- | :--- | ---: |
|  |  |  |  | 8 |
|  |  | Total Marks for Activity 3 |  | $\mathbf{2 9}$ |


|  |  |  |  |  |
| :--- | :--- | :--- | ---: | ---: |
| Activity 4 |  | Letters \& memos |  |  |
|  |  | Memos (screenshots only allowed if only memo can be seen) |  |  |
|  | A1 | 2 memos produced or 1 with both sets of times | $\mathbf{1}$ |  |
|  | A2 | All minibuses used | $\mathbf{1 , 1}$ |  |
|  | A3 | No bus leaves before 6 | $\mathbf{1 , 1}$ |  |
|  | A4 | All buses used arrive at or before 12 | $\mathbf{1 , 1}$ |  |
|  | A5 | All arrive between 11.45 and 11.59 if A3 awarded | $\mathbf{1 , 1}$ |  |
|  |  | A2, A3, A4, A5 one for each mem0 |  | $\mathbf{9}$ |

Note: Place student in correct mark band based on content.
QWC adjustment can only reduce mark within band. This must be based on the expectation within the mark band. Marks cannot be added and the adjustment cannot put the mark in a different mark band.

|  | Letter |  |  |
| :---: | :---: | :---: | :---: |
|  | Indicative Content |  |  |
|  | - who is sending letter (2w) <br> o BBL <br> o Southern Division <br> - reason for invitation (5r) <br> o special coach, <br> o why he is good <br> o for selection event <br> o training session <br> o Under 14s <br> - Information (6i) <br> o Correct Day \& Date given <br> o 5 minutes wait <br> o Sign in Time <br> o Crawley <br> o Table info <br> - Times of pickups <br> - Places of pickups, <br> - Letter format <br> o acceptance/ rejection method <br> o salutation (Dear parent / guardian) not names <br> o correct close (not yours sincerely MB3) <br> o letter date <br> standard letter produced - not individual |  |  |
| Level | Mark | Descriptor |  |
| 0 | 0 | No rewardable material |  |
| Level 1 | 1-4 | May not look like a letter. <br> Some information about the event <br> May not include details of sender and reason for invite <br> Should have the times / places of pickup <br> The candidate uses everyday language and the response lacks clarity and organisation. Spelling, punctuation and the rules of grammar are used with limited accuracy. |  |
| Level 2 | 5-8 | Some content from all sections Basic letter form salutation and close may not be appropriate. |  |


|  |  | The candidate uses some terms and shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Level 3 | 9-12 | Most content from each section <br> No redundant information, tabular format used sensibly. Looks like standard <br> letter. Appropriate salutation and close <br> The candidate uses a range of appropriate terms and shows good focus and organisation. Spelling, punctuation and the rules of grammar used with considerable accuracy. |  |  |
|  |  |  |  | 12 |
|  |  | Charts (could have one combined pie chart) |  |  |
|  | C1 | Percentages shown | 1 |  |
|  | C2 | Suitable labels | 1 |  |
|  | C3 | Pie charts | 1 |  |
|  | C4 | Zeros eliminated | 1 |  |
|  |  |  |  | 4 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  | Total Marks for Activity 4 |  | 25 |
|  |  |  |  |  |


| Activity 5 |  | Evaluation |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | A1 | Comment on ease of use | 1 |  |
|  | A2 | Statement to the effect that it helped you to a solution | 1 |  |
|  |  |  |  | 2 |
|  |  |  |  |  |
|  |  | Max 4 marks (Any combination of) |  |  |
|  | B1 | Recommendations for improvement System produces individual parent letters | 1 |  |
|  | B2 | Recommendations for improvement with any explanation Names and addresses should be stored and a mailmerge used to produce individual letters | 2 |  |
|  |  | Other possibilities: <br> o Works out route automatically <br> o Put totals on memo <br> o Stop multiple visits to one location |  |  |
|  |  |  |  | 4 |
|  |  |  |  |  |
|  |  | Total Marks for Activity 5 |  | 6 |
|  |  |  |  |  |
| SWW |  | At least 3 activities attempted for S1 and S2 to be awarded |  |  |
|  | S1 | Authenticating Work (All WP pages have activity number, name, candidate number, centre number). | 1 |  |
|  | S2 | Appropriate Structure (Pages in correct order \& folder assembled correctly) | 1 |  |
|  |  | Total for SWW |  | 2 |
|  |  |  |  |  |
|  |  | Total for Paper |  | 90 |
|  |  |  |  |  |
|  |  |  |  |  |

Further copies of this publication are available from Edexcel Publications, Adamsway, Mansfield, Notts, NG18 4FN

Telephone 01623467467
Fax 01623450481
Email publications@linneydirect.com
Order Code UA023480 Summer 2010

For more information on Edexcel qualifications, please visit www.edexcel.com/quals

Edexcel Limited. Registered in England and Wales no. 4496750
Registered Office: One90 High Holborn, London, WCIV 7BH

