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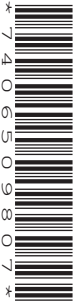
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A2 GCE APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

G048/IT   Working to a brief

INSTRUCTIONS FOR TEACHERS   **For assessment submission**
JUNE 2018

INSTRUCTIONS FOR TEACHERS

- This brief should be issued to candidates at the start of the course.
- There are no time limitations on candidates completing the tasks but you must set an internal deadline for candidates to complete and submit their work. This deadline must allow time for marking the work and submission of marks to OCR by 15 May 2018.
- **All work must be the candidates' own work.**
    - Candidates must be made aware of the Notice to Candidates on page 2 of the G048 Instructions for candidates. A copy of this notice is reproduced overleaf for reference.
    - You must be able to verify that a candidate's work submitted for assessment is their own work. Sufficient work must be carried out under direct supervision to allow authentication of coursework marks with confidence.

INFORMATION FOR TEACHERS

- **Work completed to this brief can only be submitted in the June 2018 series.**
- The total number of marks available for the paper is **50**.
- There are no restrictions on computing facilities, hardware or software that may be used.
- The work must be marked, using the Assessment Evidence Grid on pages 180–182 of the specification.
- This document consists of **8** pages. Any blank pages are indicated.

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NOTICE TO CANDIDATES

The work you submit for assessment must be your own.

If you copy from someone else or allow another candidate to copy from you, or if you cheat in any other way, you may be **disqualified** from at least the subject concerned.

Any materials (eg books, information from the internet that you have used to help complete this work) must be clearly acknowledged in the work itself.

- You must always keep your coursework secure and confidential while you are preparing it. **If it is stored on a computer network, keep your password secure. When printing work, collect all copies from the printer and destroy those you don't need.**

- When you hand in your coursework for assessment, you will be required to sign that you have understood and followed the coursework and portfolio regulations.

ALWAYS REMEMBER:

YOUR WORK MUST BE YOUR OWN

INSTRUCTIONS FOR TEACHERS – 2018

Each of the following briefs has been written so that it may be completed alongside the Advanced GCE optional unit to which it relates, should centres wish to do so. There is no requirement that centres adopt this practice. Where they do so, it is the centre's responsibility to ensure that the requirements of the related Advanced GCE unit are covered.

Candidates must research and develop **one** of these briefs.

Whichever brief is chosen, candidates will need to report on current working practices. This may be based on actual working practices or an existing solution to a similar problem. If, as a teacher, you are playing the role of the client for the candidates then you will need to identify the working practices within the organisation.

For assessment of this unit, each candidate must produce evidence which **must** include:

- a preparatory report into current working practice
- a project plan in response to the set brief
- a diary or log of work completed
- support materials for use with the project
- an evaluation of their performance in relation to planning the project
- an evaluation of their performance in implementing the project
- an evaluation of their ICT solution to the given brief.

A project management plan will help candidates to organise their time efficiently. As a guide, the minimum requirements for the project management plan would include:

- key dates, deadlines and timescales
- how work may be managed in small sections or tasks
- organisation of information and resources
- time for reviews and modifications
- time for evaluation.

Full planning is vital to the success of the project. Full planning will also allow the candidates to evaluate their work more effectively. There must be clear evidence of planning **before** the project is started.

As well as planning their work in full, candidates must complete a diary or log while they are working on the project. This diary or log should include:

- a full list of all tasks undertaken as part of the delivery of the project
- an assessment of their contribution to the success of the task
- the skills used in meeting the requirements of the task
- an assessment of how their skills were extended to meet the requirements of the task – the discussion of their skills will need to include their use of working with others as well as ICT skills.

Candidates will need to produce supporting materials for the project. These may take any form and it is for the candidate to decide what support materials the project needs.

Once each candidate has completed the project, they will need to report on how well the project ran, what its strengths and weaknesses were and how well they worked with others. Their report should also suggest improvements to the project. Each candidate should collect feedback from users and the client in order to allow them to make informed comments about their project and the role that they played.

At the end of the unit, each candidate must hand in:

- their report on current working practices
- their project plan
- their diary or log
- support materials
- their evaluation reports.

Briefs

Each brief may be carried out by candidates working on their own or as part of a team. Where candidates are working on their own, the focus of 'working with others' becomes the clients or end users of the product. Where candidates are working as a team member, the focus may also include other members of the team.

Candidates **must** develop a solution to **one** of the following briefs.

Brief 1

After moving away from the town where they first met, one of the main challenges that groups of friends face is identifying locations for reunions that are fair for all involved.

Niffer Software Solutions wants to develop an app to solve this problem and has asked you to create a spreadsheet model of how the app will work.

The requirements of the model are:

1. The decision on where any reunion will take place will be based on an analysis of the distance from each person's starting point and how many people live in that starting point. For example, the distance from London to Bristol is approximately 120 miles. If two people's starting point is London and a third's starting point is Bristol, the reunion should be approximately 40 miles from London and 80 miles from Bristol.
2. Your model should:
   a. allow the name of each person's starting point to be selected from a drop-down menu
   b. calculate how many people are based in the same starting point
   c. calculate a location for the reunion
   d. output the required journey length of each person involved in the reunion
   e. show the starting point of each person involved in the reunion and the suggested location of the reunion on a graph.

For testing purposes, your model should include five towns or cities and their respective locations. The suggested locations for reunions produced by the model need not exist within your model, but it should be possible to apply your graphical output to a map and identify where this is.

This task may be completed in conjunction with Unit G049: Numerical modelling using spreadsheets.

Brief 2

Brown Bird Education creates interactive learning resources for young children. They want to develop a range of e-books that help younger children with basic numeracy.

You have been asked to create a resource that introduces young children to number bonds. Users will be able to select numbers from a range presented on screen to answer simple number bond questions. When a child answers a question, there will be suitable visual feedback. The nature of this feedback will depend on whether the answer is correct or incorrect.

The resource will also include the following auditory output:

  · when a child selects individual numbers, the name of the number will be output
  · when a child correctly answers a question, a fanfare will play.

Brown Bird Education would like users of the resource to be able to disable or enable the sound feature.

Children will also be able to create single digit number bond questions and ask the resource to provide the answer. In this case, the resource will also output the name of the number that is the outcome of the question. This output may be auditory or visual.

This task may be completed in conjunction with Unit G050: Interactive multimedia products.

Brief 3

EDN Publications has targeted the growing number of people who are involved in writing fan fiction as an area where they can achieve increased sales.

You have been asked to produce a "How To" guide on producing fan fiction. This publication will cover:

  · what fan fiction is
  · hints and tips on how to write fan fiction
  · links to fan fiction sites
  · advice on how to avoid copyright infringement.

You have also been asked to include an example of fan fiction that combines textual and graphical elements. This may be a graphical novel, or may use graphics to visualise key scenes. EDN Publications expects you to create the exemplar work, and have stated that the graphics used could be photographs.

The example fan fiction section should be a minimum of 4 pages of A4.

This task may be completed in conjunction with Unit G051: Publishing.

Brief 4

The Digestion is a new avant-garde gallery that is about to open in London. The gallery will focus on experimental art and wants to present visitors with an image of itself that suits the type of art the gallery is focussing on.

Rather than use off-the-shelf signage around the gallery, the owners want to have signage that fits the image that the gallery is trying to portray.

You have been asked to design a range of signs and other materials that will be used around the gallery. These should cover functional signs, such as directions, room names and information, as well as other images that may be used in advertising and on leaflets. This should include a logo for the gallery.

This task may be completed in conjunction with Unit G052: Artwork and imaging.

Brief 5

The Reader Collective is a private organisation that aims to encourage young people to read more classical literature. The organisation is launching the Reader Prize, which will celebrate the most popular author of classical literature, as voted for by members of the public. Voting will be via a website.

The final website will include:

- a front page introducing the Reader Prize
- a page for each author, that will include:
    ◦ information about that author
    ◦ a photograph or other suitable image of the author
    ◦ a review of up to five titles by the author
    ◦ a sound file recorded by a famous person, extolling the virtues of the author and giving reasons why the author deserves your vote
    ◦ links to sites where further information can be found about the author
- a voting page, where members of the public will be able to vote for their favourite author, which will gather the following information from voters:
    ◦ full name
    ◦ email address
    ◦ an indication of the author they are voting for.

    When a member of the public votes, they will automatically receive a confirmation email sent to the email address they have provided.

The Reader Collective has asked you to produce a prototype of this website.

So that the organisation can evaluate the effectiveness of your prototype website, they have asked that you focus on the work of five authors of your choice. They have also asked that you record a suitable sound file for each author, rather than collect sound clips from famous people.

This task may be completed in conjunction with Unit G053: Developing and creating websites.

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