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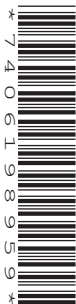
A2 GCE APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

G048/IC   Working to a brief

INSTRUCTIONS FOR CANDIDATES   **For assessment submission**

JUNE 2018

TIME

- These briefs are only valid for submission of marks to OCR in May 2018.

INSTRUCTIONS TO CANDIDATES

- You must use this booklet for guidance throughout your work for this unit.
- You must complete your project by the date set by your teacher.
- You must submit all your preparatory work with your solution to the brief.
- **All work submitted for assessment must be your own work.** You must read the Notice to Candidates on page 2 overleaf before you start your project. Where you have worked as part of a team you must clearly identify your individual contribution to the project.

INFORMATION FOR CANDIDATES

- The total number of marks available for the paper is **50**.
- You may start your preparatory work as soon as you receive this paper.
- There are no restrictions on computing facilities, hardware or software that may be used.
- This document consists of **8** pages. Any blank pages are indicated.

It is important that you discuss with your teacher anything that you do not understand.

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Turn over

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 CANDIDATES

Each of the following briefs has been written so that it may be completed alongside the Advanced GCE optional unit to which it relates. You **must not** use any other brief other than those listed in this booklet.

Read the briefs in this booklet. You must research and develop **one** of these briefs.

For assessment of this unit, you 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 your performance in relation to planning the project
- an evaluation of your performance in implementing the project
- an evaluation of your ICT solution to the given brief.

Whichever brief you choose, you will need to report on current working practices. Before you plan the structure and content of your project, you will need to carry out some research into working practices within the organisation. This research should enable you to plan a solution that works smoothly and with minimum disruption.

A project management plan will help you to organise your time efficiently. As a guide, the minimum requirements for the project management plan should 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 you to evaluate your work more effectively. There must be clear evidence of planning **before** you start your project.

While you are working on the project you must complete a diary or log. This diary or log should include:

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

You will need to produce supporting materials. These may take any form and it is for you to decide what support materials your project needs.

Once you have completed the project, you will need to report on how well the project ran, what its strengths and weaknesses were and how well you worked with others. You should also suggest improvements to the project. You should collect feedback from users and the client in order to allow you to make informed comments about your project and the role that you played.

At the end of the unit, you must hand in:

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

Make sure that all your work has your name, candidate number and centre number on each page.

Briefs

You may carry out the brief by working on your own or as part of a team. Where you are working on your own, the focus of 'working with others' becomes the clients or end users of the product. Where you are working as a team member, the focus may also include other members of the team.

You **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, extoling 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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