



To be opened on receipt

**A2 GCE APPLIED INFORMATION AND COMMUNICATION
TECHNOLOGY**

G048/IT Working to a brief

INSTRUCTIONS FOR TEACHERS

For assessment submission

JUNE 2014



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 2014.
- **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 2014 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 183–185 of the specification.
- This document consists of **8** pages. Any blank pages are indicated.

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 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 whilst you are preparing it. **If it is stored on the 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 – 2014

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. Only responses to the briefs as set will be accepted. **No marks can be awarded** for work in response to any other brief.

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 includes:

- 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 whilst 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 requirement 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 the ultimate decision about what support materials the project needs is for the candidate to decide.

Once each candidate has completed the project, they will need to report on how well the project ran, what were its strengths and weaknesses and how well they worked with others. Their report should also suggest improvements to the project. Each candidate should collect feedback from users 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

The Trew River Reservoir is about to be created and will be the sole source of piped water for the town of Trew Bridge. The population of Trew Bridge is 70 000 and the average person uses 840 litres of water per week.

The Trew River Reservoir will have a maximum capacity of 4000 million litres. The reservoir will be fed by the Rivers Trew, Albe and Cal. Water can also be pumped in from an underground source, if required. The rate at which water is pumped from the underground source can be controlled, but the rates of flow from the Rivers Trew, Albe and Cal are dependent on rainfall in the area, which is seasonally dependent.

The maximum and minimum rates of flow of the three rivers, as well as from the pumped source, are shown in the table below. All figures are in litres per second:

Source	Maximum rate of flow	Minimum rate of flow
River Trew	3600	1000
River Albe	1000	680
River Cal	400	0
Pumped from underground source	400	0

The targeted amount of water allowed to flow out of the reservoir and back into the River Trew will be 4000 litres per second. This can be varied between a minimum of 1000 litres per second and a maximum of 5200 litres per second.

You have been asked to create a spreadsheet model that will be used to model the amount of water in the Trew River Reservoir. The model should take account of all variables, including seasonal variations in the rate of flow of the feeder rivers. The target for the reservoir is that it should never go below 45% of the maximum capacity. The managers of the reservoir will be able to vary the flow of water into and out of the reservoir to help achieve this.

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

Brief 2

A business has asked you to create a prototype of a multimedia product that will be used as part of a forthcoming marketing campaign. The business specialises in selling clothing by mail-order for children and young adults between the ages of 13 and 21 years.

The multimedia product will have three sections. These should be:

- an introduction
- instructions on how to use the drag and drop section
- the drag and drop section.

The drag and drop section will allow users to select items from each of the following categories:

- trousers and skirts
- shirts, jumpers and t-shirts
- footwear.

Each category must contain a minimum of three choices. These could be colours, styles or types.

Users will be able to drag items onto a sample body to check whether they co-ordinate as part of one outfit. It is hoped that this will result in fewer returned items.

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

Brief 3

You work for a regional newspaper that wants to increase sales by appealing to people aged between 16 and 25 years. One tactic being considered is to provide a pull-out section that includes news articles and other materials specifically aimed at this age group.

You have been asked to produce a sample version of this section of the newspaper. Your sample should cover 12 sheets of A4 paper, or equivalent.

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

Brief 4

Team World Games Ltd is a software publishing house specialising in the creation of collaborative computer games. You have been asked to create a set of graphics that will be used as part of the forthcoming “Mars Jungle” game.

This game will be an adventure game where a small team of space pirates are searching Mars for a lost spaceship. The game will feature a group of four main human characters. You can choose the gender of these human characters.

The game action will be in the spaceship and on the surface of Mars.

You have been asked to create 15 graphics that can be used in the game. You need to create at least one graphic for each of the following areas:

- human characters
- alien characters
- background
- spaceship
- logo.

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

Brief 5

You have been asked to create an informational website about services provided by the Council and other agencies, in your local area. The website should focus on a minimum of five services and should be suitable for use by adults and younger users. The website should include a range of different material about each service.

It is intended that the website should be mainly for reference purposes and provide information such as opening times and locations. However, it is anticipated that the website will provide some promotional materials to raise interest in each of the services provided.

You have been asked to include a feedback form that can be used to comment on the usability of the site.

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

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