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A2 GCE   APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

G048/IT Working to a brief

INSTRUCTIONS FOR TEACHERS   **For assessment submission**

JUNE 2015

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 2015.
- **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 2015 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 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 – 2015

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

Yolo Car Rentals Ltd is a car rental firm that specialises in renting family cars. The company only rents two types of car. These are the Minerva, which is a mid-sized family car and the Monaco, which is a smaller family car.

Customers have complained that they are not sure which car best suits their needs and so Yolo Car Rentals Ltd would like a model that would allow customers to make an informed decision.

Create a model that will allow customers to:

- identify their required rental package (half day, full day or multiple days)
- enter the total distance for their journey
- enter the proportion of their journey that will be:
  - o town driving
  - o motorway driving
  - o rural driving
- enter the price per litre of petrol
- enter a target budget for rental.

Your completed spreadsheet model should be able to use this information to:

- calculate the total cost by combining together the total cost of petrol for the journey and the rental cost, so that customers can compare the costs of renting the Minerva or the Monaco
- use all data entered, as well as the rental budget, to identify the more appropriate of the two options to the customer.

The table below shows information that Yolo Car Rentals Ltd would like you to include in the model.

	Rental costs			Miles per litre		
Car type	Half day	Full day	Multiple days (per day)	Town	Motorway	Rural
Minerva	£58	£90	£85	10	17	12.2
Monaco	£40	£75	£72	13	14.2	15.3

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

Brief 2

You have been asked to create an 'Escape the room' game that will be part of a series of games that will help students to revise for GCSE examinations. Each game will allow students to follow clues and pick up items if they correctly answer questions based on subject content. Only by picking up all items in a room would students be able to progress to the next room.

Each room should have between seven and ten questions.

Each game will have a total of three rooms, through which students will need to move in order to complete the game. The questions asked in each room will be more complicated than the questions asked in the previous room. Once students complete the final room, they should be presented with a completion certificate which they can print, should they want to.

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

Brief 3

Vogel Supermarkets is a chain of discount supermarkets that sells food and other household goods. Each month, the chain has special offers that focus on one theme. Previous themes have included camping and horse riding.

The chain publishes a monthly, twelve-page newsletter that highlights the next month's theme and associated special offers. Each newsletter also includes recipes and other articles.

You have been asked to create a suitable newsletter that will highlight the forthcoming 'summer sports' theme.

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

Brief 4

STB Books is a newly established business that intends to publish educational books. Its first series of books will be called the MES Series and be aimed at students between the ages of 11 and 14. The series will cover Maths, English and Science.

Currently, the business has no artwork to use in the books.

You have been asked to create the following:

- a suitable logo that the business can use on all its publications
- graphics that may be used throughout the MES series. These graphics will not be subject specific, but rather should create a common theme across all books in the series.

You must create15 different graphics for use in the first series of books.

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

Brief 5

The Little Theatre has asked you to create a prototype for a website that will publicise the theatre and forthcoming plays. The website will allow customers to book seats and ask for further information.

The Little Theatre would like the website to include:

- information about the next play to be staged at the theatre, including descriptions of the main actors
- recommendations, interviews and sound bites from customers who have enjoyed previous shows
- a means by which customers can find out the location of the theatre.

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

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