

Edexcel International GCSE

Information and Communication Technology Paper 2: Practical Paper

21–25 May 2012

Time: 3 hours

Paper Reference

4IT0/02

You must have:

Short treasury tag, Cover Sheet, Data files: AIRPLANE, CHARGE, INTERAYR, JULY, NOTES, PLANE, IMAGES FOLDER

Instructions

- Complete your candidate details on the cover sheet provided.
- At the end of the examination use a treasury tag to attach your printouts to Page 2 of the cover sheet.

Information

- There are **five** activities in this examination paper totalling **100** marks.
- The marks for the parts of tasks are shown in round brackets: e.g. **(2)**.

Advice

- Read through the instructions on Page 3.
- Attempt **ALL** activities.
- Take breaks away from the computer from time to time.
- Label your printouts clearly as instructed in each task.

Turn over ►

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PEARSON

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Instructions to Candidates

This paper consists of **five** activities.

Work through the activities and tasks in order.

Do not spend too much time on any one activity.

For all tasks, you **MUST** enter the task number, your name, candidate number and centre number **BEFORE PRINTING**.

This table shows the marks and data files needed for each activity.

Activity	Marks	Data files needed
1 Using Art/Imaging and Graphics Software (AG)	8	PLANE, AIRPLANE
2 Using Database Software (DB)	31	INTERAYR
3 Using Web Authoring Software (WA)	15	NOTES, IMAGES FOLDER
4 Using Spreadsheet Software (SS)	30	CHARGE
5 Using DTP/Word Processing Software (DTP/WP)	16	JULY
Total Marks	100	

For all activities, you may also need to use word processing software.

Scenario

InterAYR is a travel company owned by Angela Yelena Reith.

These are the contact details of the Head Office.

Address: InterAYR, 1 High Street, Croftor, Middlesex, TW21 2PM

Phone: 01753 329202

Website: www.interayr.co.uk

Email: enquiries@interayr.co.uk

Activity 1 – Using Art/Imaging and Graphics Software (AG) (15 minutes)**Task AG1**

Open a new document using word processing software.

Enter **Task AG1**, your name, candidate number and centre number in the footer of the document.

SAVE the document as **TASK AG1**.

- (a) Angela wants to use the photograph **AIRPLANE** on the InterAYR website. She wants the image cropped before it is used.

Open a suitable art/graphics package.

Open the image **AIRPLANE**.

Crop the image so that:

- the plane is the only object shown
- the image remains rectangular
- as much of the sky is removed as possible.

(3)

SAVE the image as **AIRPLANE2**.

Paste the cropped image into **TASK AG1**.

RESAVE TASK AG1.

DO NOT PRINT at this stage.

- (b) Angela wants the image **PLANE** altered to use as the company logo. The logo must be suitable for printing in colour or black and white.

Open a suitable art/graphics package.

Open the image **PLANE**.

Change the image so that:

- the text InterAYR is added on the side of the plane
- it is fit for purpose.

(3)

SAVE the image as **AYRLOGO**.

Paste a copy of the image into **TASK AG1**.

RESAVE TASK AG1.

DO NOT PRINT at this stage.

(c) In document **TASK AG1** explain how the changes to the image **PLANE** make it fit for purpose as the logo.

(2)

Make sure that **TASK AG1** is still on one side of A4.

RESAVE TASK AG1.

PRINT TASK AG1.

(Total for Task AG1 = 8 marks)

TOTAL FOR ACTIVITY 1 = 8 MARKS

Activity 2 – Using Database Software (DB) (50 minutes)

The **INTERAYR** database has two linked tables:

- AIRPORT
- CUSTOMER

Angela has stored details of customers and their flight destinations in the **CUSTOMER** table.

Open the database file **INTERAYR**.

Task DB1

The structure of the **CUSTOMER** table is:

Field Name	Data Type	Description
ID	Text	Unique ID for each customer
TITLE	Text	Customer title Mr (for male) or Ms (for female)
INITIAL	Text	First letter of customer first name
FNAME	Text	First name of customer
LNAME	Text	Last name of customer
PHONE	Text	Phone number of customer
DEST	Text	Three letter code for airport of destination
DATE	Date/Time	Date of flight (short date format dd/mm/yyyy)

(a) Angela wants a data entry form for the **CUSTOMER** table.

Create the data entry form.

It must:

- have a suitable title
- be clear and easy to use
- include a drop down list for at least one field.

SAVE the entry form as **DB1a**.

Display the form in data entry view.

Take a screen shot of the data entry form.

(6)

Open a new document using word processing software.

Enter **Task DB1**, your name, candidate number and centre number in the footer of the document.

Paste the screen shot into **TASK DB1**.

SAVE the word processed document as **TASK DB1**.

DO NOT PRINT at this stage.

(b) A customer is to be added to the database.

Her details are:

Ms Jennie Bartholomew, ID: BARJ6, going to Doha (DOH) on 3 August 2012.

Her phone number is 00 44 1924 686867.

(i) Enter this data into the **CUSTOMER** table.

(2)

(ii) Sort the **CUSTOMER** table in ascending order of **DATE**.

(3)

Copy and paste the **CUSTOMER** table into **TASK DB1**

RESAVE TASK DB1.

PRINT TASK DB1 on **one** side of A4.

(Total for Task DB1 = 11 marks)

Task DB2

Open a new document using word processing software.

Enter **Task DB2**, your name, candidate number and centre number in the footer of the document.

SAVE the document as **TASK DB2**.

(a) Angela wants a list of customers whose destination is Muscat (MCT).

The list should:

- show only the fields **TITLE, INITIAL, LNAME, PHONE** and **DATE** in this order
- be in ascending order of **LNAME**.

Create a query/search on the **CUSTOMER** table to produce this list.

SAVE the query/search as **DB2a**.

Display the results of your query/search.

(4)

Copy the results of your search into **TASK DB2**.

RESAVE TASK DB2.

DO NOT PRINT at this stage.

The **AIRPORT** table contains details of destination airports.

(b) Angela wants a list of airports which have a runway length of 4000 metres or more.

The list should only show the fields **CITY, COUNTRY, and DISTANCE**.

Create a query/search on the table **AIRPORT** to identify these airports.

SAVE the query/search as **DB2b**.

Display the results of your query/search.

(3)

Copy the results of your query/search into **TASK DB2**.

RESAVE TASK DB2.

PRINT TASK DB2.

(Total for Task DB2 = 7 marks)

Task DB3

The **CUSTOMER** and **AIRPORT** tables are linked.

(a) Angela wants a list of customers flying from 23 July 2012 to 29 July 2012.

The list should show only the fields **FNAME, LNAME, PHONE, COUNTRY, CITY** and **DATE**.

Create a query/search on the **CUSTOMER** and **AIRPORT** tables to find the correct records.

SAVE the query/search as **DB3a**.

Display the query/search design.

Take a screen shot of the design.

(6)

Open a new document using word processing software.

Enter **Task DB3a**, your name, candidate number and centre number in the footer of the document.

Paste the screen shot into **TASK DB3a**.

SAVE the document as **TASK DB3a**.

PRINT TASK DB3a.

(b) Angela wants the list to be produced as a database report.

The report should:

- have a suitable title
- show only the fields **LNAME, FNAME, COUNTRY, CITY** and **DATE** in this order
- not have grouped records
- be sorted in ascending order of **DATE** within ascending order of **CITY**
- have suitable column headings.

Check that the layout and content of the database report is fit for purpose.

Make sure that the database report fits onto one side of A4.

(7)

Enter **Task DB3b**, your name, candidate number and centre number in the page footer of the database report.

SAVE the database report as **TASK DB3b**.

PRINT TASK DB3b.

(Total for Task DB3 = 13 marks)

TOTAL FOR ACTIVITY 2 = 31 MARKS

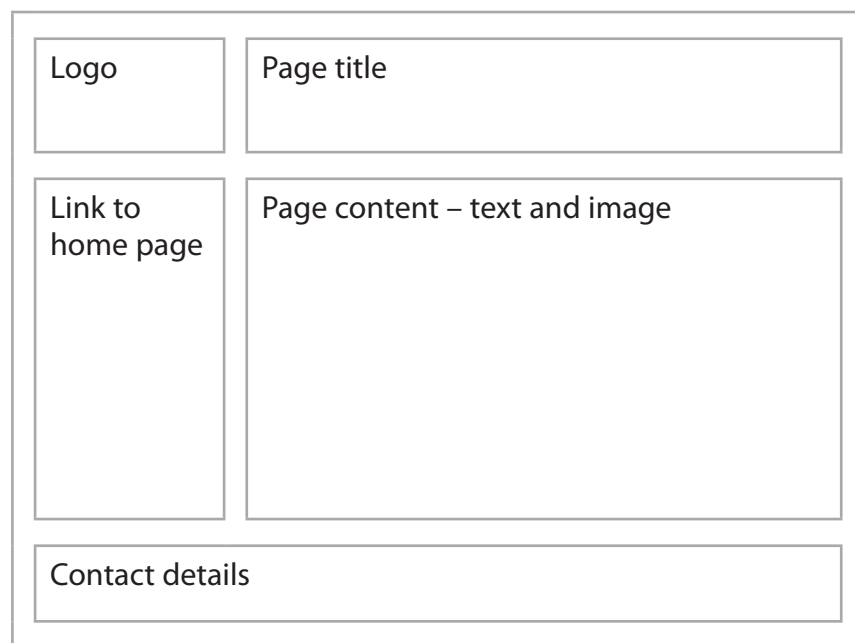
Activity 3 – Using Web Authoring Software (WA) (25 minutes)

You may use any appropriate software for this activity.

Task WA1

Angela wants a new page for the InterAYR website to advertise a special offer in September.

The website is based on this design.



Website house style:

Background colour –
Pale yellow

Text – Dark blue

Information about special offers is stored in the file **NOTES**.

Images are stored in the **IMAGES FOLDER**.

The logo was created in Activity 1.

(i) Create the web page using the layout shown in the design.

(9)

(ii) Make sure your web page is fit for purpose.

Display the web page.

Make sure all the content is visible on the screen.

Take a screen shot of the web page.

(6)

SAVE the web page as **OFFER**.

Open a new document using word processing software.

Enter **Task WA1**, your name, candidate number and centre number in the footer of the document.

Paste the screen shot into **TASK WA1**.

SAVE the document as **TASK WA1**.

PRINT TASK WA1.

(Total for Task WA1 = 15 marks)

TOTAL FOR ACTIVITY 3 = 15 MARKS

Activity 4 – Using Spreadsheet Software (SS) (50 minutes)

Angela is considering changing the way ticket prices are calculated. She has set up a spreadsheet and entered some test data. She has called her spreadsheet **CHARGE**.

Task SS1

Open the file **CHARGE**.

Enter **Task SS1**, your name, candidate number and centre number in the footer of the spreadsheet.

The spreadsheet has the structure shown in this table.

Column heading	Description
City	Name of main city near airport
Current Price	Current price of a ticket in UK currency (£1 = 100 pence, £0.01 = 1 pence)
Distance	Distance in kilometres from London Heathrow to destination airport
Customers	Number of customers using the flight in an average week

- (i) Add a suitable title for the spreadsheet. (2)
- (ii) Sort the data in the spreadsheet so that the cities are in ascending alphabetical order. (2)
- (iii) Format the spreadsheet so that all the data is visible. (1)
- (iv) Format the spreadsheet to improve readability and layout. (2)

SAVE the spreadsheet as **TASK SS1**.

PRINT TASK SS1 on **one** side of A4 showing the **data**.

(Total for Task SS1 = 7 marks)

Task SS2

Angela wants to know the income from flights to each city.

- (i) Enter the heading **Current Income** in the next available column. (1)
- (ii) Enter a formula to calculate the current income (**Current Price x Customers**) for the first city. (2)
- (iii) Replicate the formula for the other cities. (1)
- (iv) Enter a formula to calculate the total current income. (2)

SAVE the spreadsheet as **TASK SS2**.

PRINT TASK SS2 on **one** side of A4 showing the **formulae**.

(Total for Task SS2 = 6 marks)

Task SS3

Angela wants to know the ticket prices for a flight to each city if she charges £0.15 per kilometre.

- (i) Enter this value in a suitable cell. Add a label. (2)
- (ii) On the same row as other column headings enter:
- **New Ticket Price**
 - **New Income**
- (1)
- (iii) Enter a formula, which uses an absolute cell reference, to calculate the new ticket price (**Distance x charge per kilometre**) for the first city. (2)
- (iv) Enter a formula in a suitable cell to calculate the new income from the new ticket price for the first city. (1)
- (v) Replicate these formulae for the other cities. (1)
- (vi) Enter a formula in a suitable cell to calculate the total new income. (1)

SAVE the spreadsheet as **TASK SS3**.

PRINT TASK SS3 on **one** side of A4 showing the **formulae**.

(Total for Task SS3 = 8 marks)

Task SS4

Angela wants to know the minimum charge per kilometre so that she receives the same income from the new ticket prices as from the current ticket prices.

(i) Use the spreadsheet to find the minimum charge per kilometre. (2)

(ii) Format the spreadsheet so that:

- all currency values show the currency symbol and two decimal places
- the presentation is consistent and easy to read.

(2)

SAVE the spreadsheet as **TASK SS4**.

PRINT TASK SS4 on **one** side of A4 showing the **data**.

(Total for Task SS4 = 4 marks)

Task SS5

Open a new document using word processing software.

Enter **Task SS5**, your name, candidate number and centre number in the footer of the document.

SAVE the document as **TASK SS5**.

Angela wants a chart to compare the current ticket prices and the new ticket prices for the cities.

Create the chart.

Make sure it has suitable titles and labels.

(5)

RESAVE the spreadsheet.

Paste a copy of the chart into **TASK SS5**.

RESAVE TASK SS5.

PRINT TASK SS5 on **one** side of A4.

(Total for Task SS5 = 5 marks)

TOTAL FOR ACTIVITY 4 = 30 MARKS

Activity 5 – Using DTP/Word Processing Software (DTP/WP) (25 minutes)**Task WP1**

Angela holds a monthly meeting with senior staff of InterAYR. The next meeting will be held on Thursday 12 July at 2.00 pm in her office.

Pauline Moores, a representative of the junior staff, is to be invited to the meeting to discuss a staff bonus scheme.

Open a new document using word processing software.

Enter **TASK WP1a**, your name, candidate number and centre number in the footer of the document.

SAVE the document as **TASK WP1a**.

(a) (i) Create a memo from Angela to Pauline.

The memo should include:

- today's date
- all standard components of a memo
- a suitable message.

(4)

(ii) Make sure the memo is fit for purpose.

(2)

RESAVE TASK WP1a.

PRINT TASK WP1a on **one** side of A4.

(b) Angela has produced the text for her report for the July meeting. She has saved the text as **JULY**.

Open a new document using word processing software.

Enter **TASK WP1b**, your name, candidate number and centre number in the footer of the document.

SAVE the document as **TASK WP1b**.

(i) Produce the report, bringing together text and images.

The report must include:

- the text from **JULY**
- the logo that you created in **Task AG1b**
- the results of the query/search you designed for **Task DB2b**
- the screen shot of the web page you created in **Task WA1**
- the chart that you created in **Task SS5**.

(5)

(ii) Format the report so that it:

- fits on **one** side of A4
- is well organised, informative and fit for purpose.

(5)

RESAVE TASK WP1b.

PRINT TASK WP1b.

(Total for Task WP1 = 16 marks)

TOTAL FOR ACTIVITY 5 = 16 MARKS
TOTAL FOR PAPER = 100 MARKS

Write your name here

Surname	Other names
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Edexcel
International GCSE

Centre Number

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Candidate Number

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Information and Communication Technology

Paper 2: Practical Paper

COVER SHEET

21–25 May 2012

Paper Reference
4IT0/02

You do not need any other materials.

Total Marks

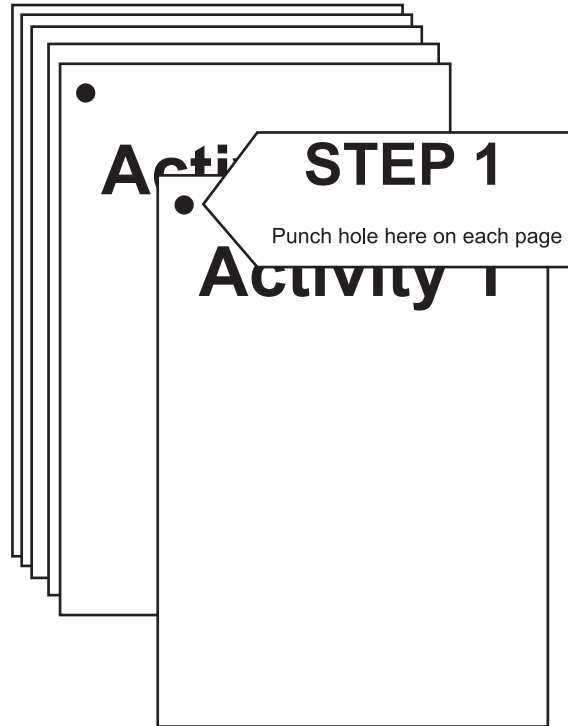
Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Punch a hole in the top left corner of each printout.
- Ensure your printouts are in the correct order and attach them to Page 2 of this cover sheet using a treasury tag.



Turn over ►

Put 'treasury tag'
through this hole



STEP 2 Arrange your pages in this order, face up.

- Activity 1
- Activity 2
- Activity 3
- Activity 4
- Activity 5

STEP 3 Put a 'treasury tag' through all your pages

STEP 4 (last)



FOR EXAMINER'S USE ONLY

		AA	TL
AG1	a	1	
		2	
		3	
b		1	
		2	
		3	
c		1	
		2	
		8	

A1	8	
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		AA	TL
DB1	a	1	
		2	
		3	
		4	
		5	
		6	
b i		1	
		2	
b ii		1	
		2	
		3	
		11	
DB2	a	1	
		2	
		3	
		4	
b		1	
		2	
		3	
		7	
DB3	a	1	
		2	
		3	
		4	
		5	
		6	
b		1	
		2	
		3	
		4	
		5	
		6	
		7	
		13	

A2	31	
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		AA	TL
WA1	i	1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
ii		1	
		2	
		3	
		4	
		5	
		6	
		15	

A3	15	
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		AA	TL
SS1	i	1	
		2	
	ii	1	
		2	
iii		1	
		1	
		2	
		2	
iv		1	
		1	
		2	
		2	
		7	
SS2	i	1	
		1	
	ii	1	
		2	
iii		1	
		1	
		2	
		2	
iv		1	
		1	
		2	
		2	
		6	
SS3	i	1	
		2	
	ii	1	
		1	
	iii	1	
		2	
iv		1	
		1	
	v	1	
		1	
	vi	1	
		1	
		8	
SS4	i	1	
		2	
ii		1	
		2	
		4	
SS5		1	
		2	
		3	
		4	
		5	
		5	

A4	30	
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		AA	TL
a i		1	
		2	
		3	
		4	
a ii		1	
		2	
b i		1	
		2	
		3	
		4	
		5	
b ii		1	
		2	
		3	
		4	
		5	
		6	
		16	

A5	16	
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