Pearson Edexcel

INTERNATIONAL GCSE

Information and Communication Technology (ICT) (9-1)

EXEMPLARS WITH EXAMINER COMMENTARIES

PAPER 2

Pearson Edexcel International GCSE in Information and Communication Technology (ICT) (4IT1)

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Introduction

1.1 About this booklet

This booklet has been produced to support teachers delivering the Pearson Edexcel International GCSE in Information and Communication Technology specification. The Paper 2 exemplar materials will enable teachers to guide their students in the application of knowledge and skills required to successfully complete this course. The booklet looks at questions from the June 2019 examination series, showing real candidate responses to questions and how examiners have applied the mark schemes to demonstrate how student responses should be marked.

1.2 How to use this booklet

Each item covered in this booklet contains:

- Questions and exemplar responses
- Mark schemes
- Examiner commentaries including the rationale for the decision and guidance on how the answer can be improved to earn more marks.

The examples highlight the achievement of the assessment objectives at lower to higher levels of candidate responses.

Centres should use this content to support their internal assessment of students and incorporate examination skills into the delivery of the specification.

1.3 Further support

A range of materials are available from the Pearson qualifications website to support you in planning and delivering this specification including: the specification, sample assessment materials, Getting Started Guide and the Principal Examiner's Report.

Task A1a

Create the logo.

The logo must be fit for purpose and include:

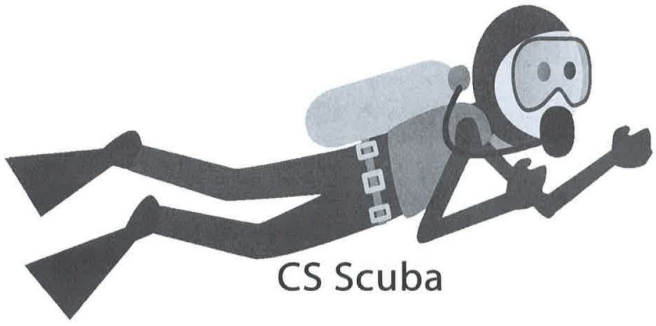
- the scuba diver image from the **IMAGES** folder. The image should be edited to remove the background
- the company name or CS Scuba

(2)

Mark scheme

TASK		Marks
A1a	Logo includes: 1. image of scuba diver with background removed (1) 2. company name or *CS Scuba* (1) Breathing tube must not be the same colour as the background Ignore case	2

Exemplar response A



Examiner's comments:

This response was given 1 mark.

The mark was awarded for including CS Scuba in the logo. The mark for removing the background was not awarded because the area between the diver's left arm and the head still included the background. Leaving this section of the image with a background was a common error that students made. Had this section also been removed, the response would have achieved the full 2 marks.

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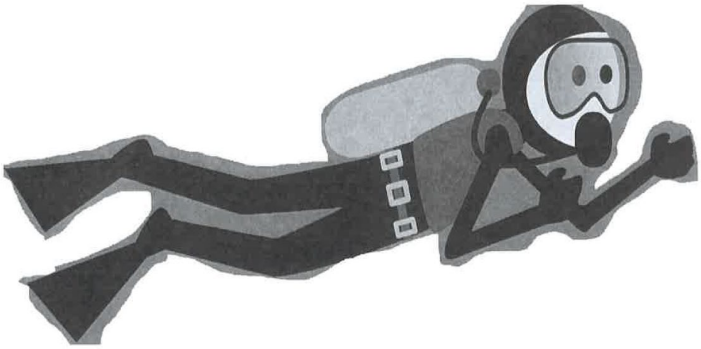
Exemplar response B



Examiner's comments:

This response was given 0 marks.
This response was not awarded any marks. The background was not removed and CS Scuba was not included anywhere within the logo.

Task A1b

Explain **one** drawback of using a bitmap image for a logo.

(2)

Mark scheme

A1b	*Explain one reason why a bitmap image would not be appropriate to be used for a logo.* Bitmap images are unsuitable if the logo is made larger (1) as they would become pixelated (1) **OR** Can increase file size (1) which would increase download time / processing / take up more storage space (1) **OR** When logo is made smaller (1) could lose detail (1)	2

Exemplar response A

A bitmap image has a static resolution and if enlarged looks pixelated or blurred, unlike vector images.

Examiner's comments:

This response was given 2 marks.

This response has covered the first marking point on the mark scheme, has referred to the image being made larger and expanded on the initial statement/identification to include becoming pixelated so achieves both marks.

Only a minority of candidates included an expansion, which is required in ***explain*** questions to achieve the second mark.

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Exemplar response B

One drawback of using a bitmap for a logo is that it consumes more memory for storage.

Examiner's comments:

This response was given 1 mark.

This response has mentioned more storage (marking point 2 on the mark scheme) but has not expanded on this to include mention of an increased file size, which would have achieved the 2 marks.

Candidates should be aware that where two marks are available for an ***explain one*** question, one mark is awarded for the identification and the second mark for the expansion. Using terms such as 'because' or 'so that' will help candidates formulate the expansion and achieve full marks.

Task A2a

Create a form for the **DESTINATIONS** table.

The form must:

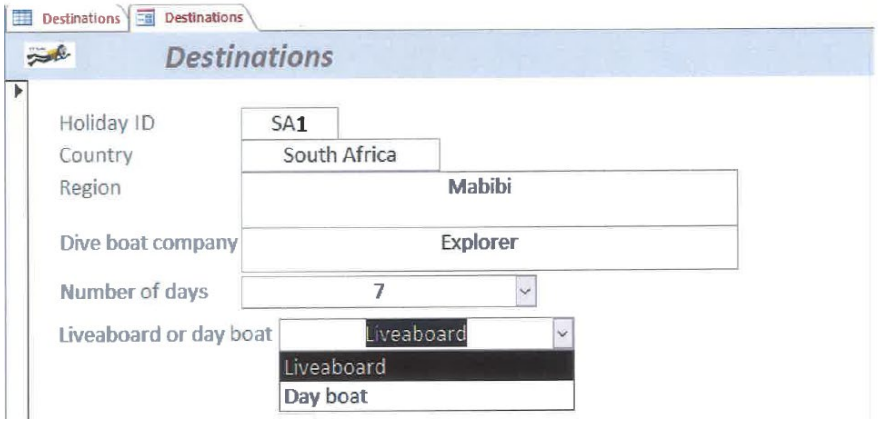
- match the house style
- include a suitable title
- be customised so that all fields have:
  - font size – 14
  - alignment – centre.

(3)

Mark scheme

A2a	*Data entry form:* 1. Match the house style (1) – bold and italics on headings and logo top left 2. Suitable title – related to destination (1) 3. All field labels centre aligned (1)	3

Exemplar response A



Examiner's comments:

This response was given 2 marks.

The response has matched the house style (1) and has a suitable heading relating to destinations (1).

The only mark this response did not achieve was for centre aligning the field labels. This issue was a common omission for this paper.

Exemplar response B

Examiner's comments:

This response was given 2 marks.

The response included a suitable title relating to destinations (1) and centre-aligned the field labels (1).

Although the heading was in bold and italics, the logo was missing so could not get the mark for matching the house style.

Task A2b

Celtic Springs Scuba (CS Scuba) has organised a new holiday.

Use the **DESTINATIONS_FORM** you created in **Task A2a** to add these details to the **DESTINATIONS** table.

Holiday ID	SA1
Country	South Africa
Region	Mabibi
Dive boat company	Explorer
Number of days	7
Liveaboard or day boat	Liveaboard

(2)

Mark scheme

A2b	*Data entry via form:* Holiday ID: SA1 Country: South Africa Region: Mabibi Dive boat company: Explorer Number of days: 7 Liveaboard or day boat: Liveaboard Award 2 marks for 6 correct entries Award 1 mark for 3, 4 or 5 correct entries Award no marks for 0, 1 or 2 correct entries If no data entry form or shows incorrect data, award from the table	2

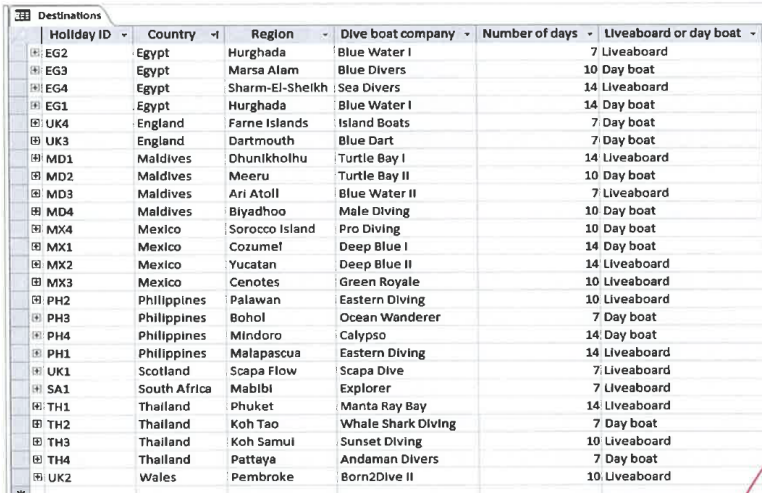
Exemplar response A

Examiner's comments:

This response was given 2 marks.

Most candidates achieved the full 2 marks for including 6 correct entries. Where candidates did not achieve the full marks, this was usually due to spelling errors within the entries.

Exemplar response B



Destinations

Holiday ID	Country	Region	Dive boat company	Number of days	Liveaboard or day boat
EG2	Egypt	Hurghada	Blue Water I	7	Liveaboard
EG3	Egypt	Marsa Alam	Blue Divers	10	Day boat
EG4	Egypt	Sharm-El-Sheikh	Sea Divers	14	Liveaboard
EG1	Egypt	Hurghada	Blue Water I	14	Day boat
UK4	England	Farne Islands	Island Boats	7	Day boat
UK3	England	Dartmouth	Blue Dart	7	Day boat
MD1	Maldives	Dhunikholhu	Turtle Bay I	14	Liveaboard
MD2	Maldives	Meeru	Turtle Bay II	10	Day boat
MD3	Maldives	Ari Atoll	Blue Water II	7	Liveaboard
MD4	Maldives	Biyadhoo	Male Diving	10	Day boat
MX4	Mexico	Sorocco Island	Pro Diving	10	Day boat
MX1	Mexico	Cozumel	Deep Blue I	14	Day boat
MX2	Mexico	Yucatan	Deep Blue II	14	Liveaboard
MX3	Mexico	Cenotes	Green Royale	10	Liveaboard
PH2	Philippines	Palawan	Eastern Diving	10	Liveaboard
PH3	Philippines	Bohol	Ocean Wanderer	7	Day boat
PH4	Philippines	Mindoro	Calypso	14	Day boat
PH1	Philippines	Malapascua	Eastern Diving	14	Liveaboard
UK1	Scotland	Scapa Flow	Scapa Dive	7	Liveaboard
SA1	South Africa	Mabibi	Explorer	7	Liveaboard
TH1	Thailand	Phuket	Manta Ray Bay	14	Liveaboard
TH2	Thailand	Koh Tao	Whale Shark Diving	7	Day boat
TH3	Thailand	Koh Samui	Sunset Diving	10	Liveaboard
TH4	Thailand	Pattaya	Andaman Divers	7	Day boat
UK2	Wales	Pembroke	Born2Dive II	10	Liveaboard

Examiner's comments:

This response was given 2 marks.

This response included the incorrect details on the form but did include the correct details on the table so was awarded the marks.

Task A2d

Simon wants a list of holidays that:

- are liveaboard
- are 7 days duration
- use Blue Water dive boats.

Create a query on the **DESTINATIONS** table to produce the list.

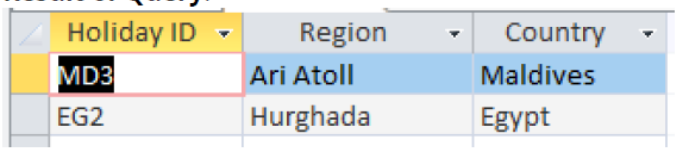
(2)

The list must:

- show only these fields in this order **Holiday ID, Region, Country**
- be sorted in descending order of **Holiday ID**

(3)

Mark scheme

A2d	**Query design**: Holiday ID | Region | Country | Dive boat company | Number of days | Liveaboard or day boa Destinations | Destinations | Destinations | Destinations | Destinations | Destinations Descending ☑ | ☑ | ☑ | ☐ | ☐ | ☐ Like "*Blue Water*" | =7 | "liveaboard" Correct 'criteria' row shown in design view: • Award 2 marks for all 3 correct criteria • Award 1 mark for 2 correct criteria • Award no marks for 0 or 1 correct criteria **Result of Query**:  Holiday ID | Region | Country MD3 | Ari Atoll | Maldives EG2 | Hurghada | Egypt 3 correct fields 'shown' – only Holiday ID, Region and Country – in any order (1) 4. fields displayed in the correct order - Holiday ID, Region and Country (1) 5. Holiday ID field sorted in descending order (1)	2 3

Exemplar response A

Field:	Holiday ID	Country	Region	Dive boat company	Number of days	Liveaboard or day boat
Table:	Destinations	Destinations	Destinations	Destinations	Destinations	Destinations
Sort:						
Show:	☑	☑	☑	☑	☑	☑
Criteria:				Like "Blue Water*"	7	"Liveaboard"
or:						

Holiday ID	Region	Country
MD3	Ari Atoll	Maldives
EG2	Hurghada	Egypt

Examiner's comments:

This response was given 5 marks.

This response has correctly included all three criteria so has been awarded the full 2 marks for the query. The use of the wildcard will enable all Blue Water boats to be found even if additional ones are added to the fleet such as: Blue Water III, IV and V. The result of the query is correct and is displayed as required so was awarded the full 3 marks.

Exemplar response B

Field:	Holiday ID	Country	Region	Dive boat company	Number of days	Liveaboard or day bo
Table:	Destinations	Destinations	Destinations	Destinations	Destinations	Destinations
Sort:						
Show:	☑	☑	☑	☑	☑	☑
Criteria:				"Blue Water I" Or "Blue Water II"	7	"Liveaboard"
or:						

Lieaboard		
Holiday ID	Region	Country
MD3	Ari Atoll	Maldives
EG2	Hurghada	Egypt

Examiner's comments:

This response was given 4 marks.

This response included two correct criteria (liveaboard and 7) so has been awarded 1 mark for the query. Although they have considered Blue Water, they have only included I and II so if anymore Blue Water boats were added, they would not be found. The use of the wildcard Like "*Blue Water*" was needed, which would accept any reference to Blue Water. The correct records were displayed as required so the result was awarded 3 marks.

Task A2e

Simon wants a list of all clients who have not completed a medical form and who are travelling to either Thailand or the Philippines.

The list must:

- show only these fields in this order **Client ID**, **Client email**, **Client name**
- be sorted into descending order of **Client ID**

Create a query on the **CLIENTS** table to find the information.

Simon wants to produce a database report based on the results from **Medical_form_query**

Create a database report to display the results.

The database report must match the house style and:

- have a suitable title
- include a suitable image
- show only the required fields
- show the records sorted as required.

Enter your name, your candidate number and centre number in the page footer.

(8)

Mark scheme

A2e	**Results of query**: Client ID | Contact email | Client name SHI07 | shintyn@fortran.net | Natalie Shinty PAS09 | pascalw@talk.org | Wendy Pascal JON25 | jonesb@virgin.net | Brien Jones BRA25 | bradleyl@chat.com | Laura Bradley The report must: 1. have a suitable title - include reference to Thailand, Philippines and Medical Form not completed (1) 2. include the logo - positioned top left of the report (1) 3. display **only** the correct 4 records (1) 4. show **only** CLIENT ID, CONTACT EMAIL and CLIENT NAME - in that order (1) 5. not have any truncation (1) 6. be in the correct order (descending order of CLIENT ID) (1) 7. include field headings formatted to bold and italics (1) 8. use correct spelling and initial capitalisation of report title (1) Do not allow marking point 5 (truncation) if it is not a database report	8

Exemplar response A

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Clients who have not completed medical forms who are visiting Thailand or Philippines

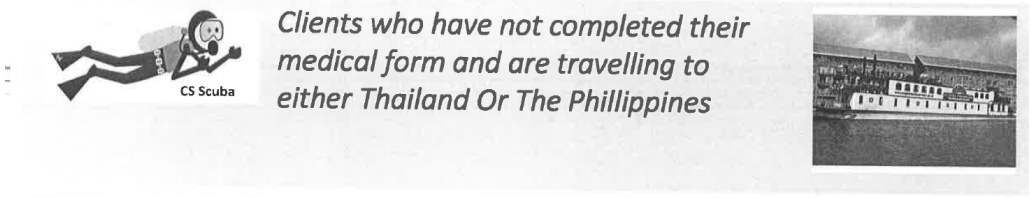
Client ID	Contact email	Client name
SHI07	shintyn@fortran.net	Natalie Shinty
PAS09	pascalw@talk.org	Wendy Pascal
BRA25	bradleyl@chat.com	Laura Bradley
JON25	jonesb@virgin.net	Brien Jones

Examiner's comments:

This response was given 6 marks.

The two marks not awarded were for not being in the correct order as Jones should come before Bradley (marking point 6) and not formatting the field headings to bold and italics (marking point 7). All other marking points were met and were awarded the marks.

Exemplar response B



Client ID	Contact email	Client name
SHI07	shintyn@fortran.net	Natalie Shinty
PAS09	pascalw@talk.org	Wendy Pascal
JON25	jonesb@virgin.net	Brien Jones
BRA25	bradleyl@chat.com	Laura Bradley

Examiner's comments:

This response was given 6 marks.

A mark was not awarded for marking point 8 because 'Philippines' had not been spelt correctly in the heading and there was no mark for marking point 7 as the field headings were not formatted to bold and italic.

Several candidates did not achieve the mark for formatting. It might be useful for candidates to tick off the marking points as they appear on the question paper so they have a better chance of completing them all.

Task A3 - Sections (a)(i), (a)(ii), (a)(iii), (b)

Task A3

OPEN a new word processing document.

ENTER your name, candidate number and centre number in the header.

SAVE the document as **TASK A3**

Simon wants you to create two pages for his website. Content for the website is stored in **WEBPAGE**

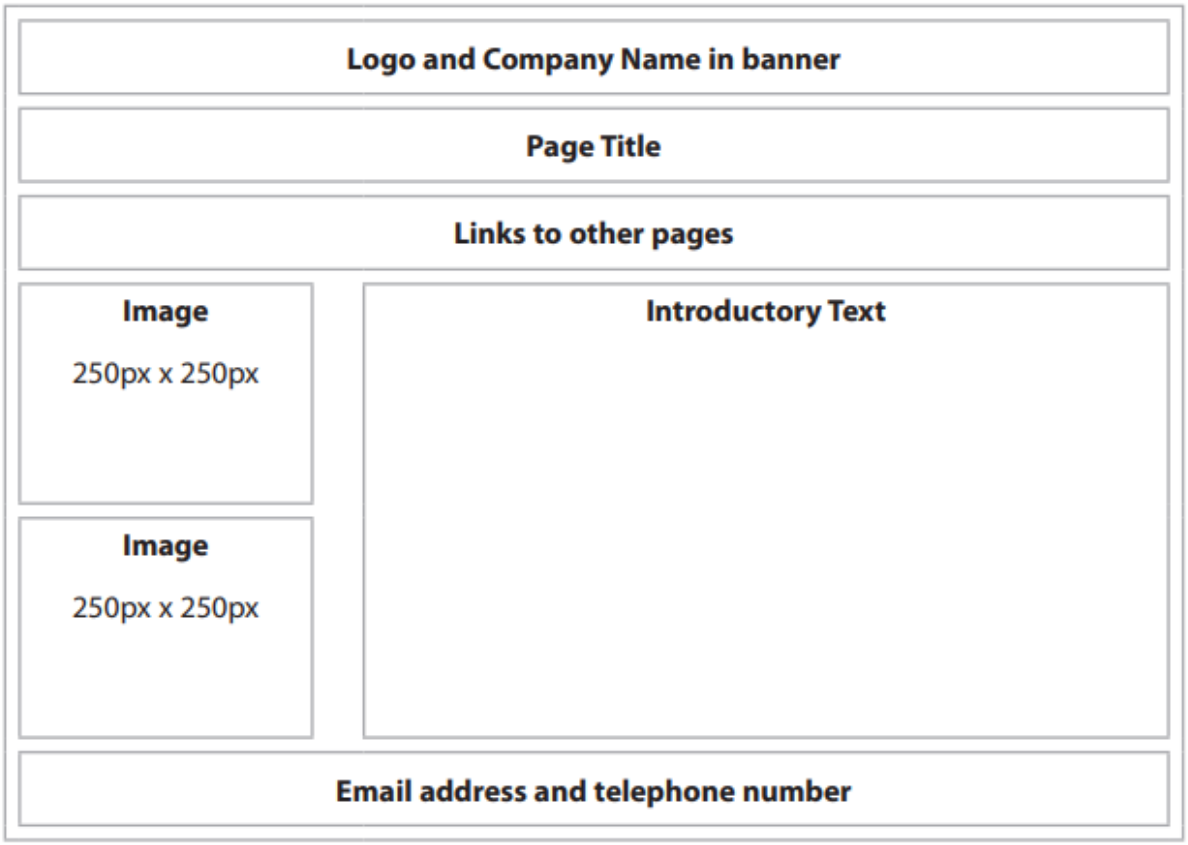
He wants you to create two linked pages:

- home
- courses.

Both web pages **MUST** be saved as .html

Task A3a

(i) Create the home page based on this design.



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Use the following colour scheme:

- background colour – Dark Sea Green (#8FBC8F)
- text colour for Introductory Text – Midnight Blue (#191970)

Use these HTML elements:

- Company Name – <h1>
- Page Title – size 18, bold , italics <i>
- Introductory Text – paragraph <p>

Include **two** appropriate images from the **IMAGES** folder and position them as shown in the design. One of the images must link to www.csscuba.net

Include appropriate content from the **WEBPAGE** document.

Include the email address and telephone number for *Celtic Springs Scuba (CS Scuba)*. The contact details are in the scenario. Make the email address an email link.

(13)

SAVE the home page as **INDEX**

TAKE a screenshot of your home page in a web browser.

PASTE the screenshot in document **TASK A3**

RESAVE TASK A3

DO NOT PRINT at this stage.

(ii) Make a copy of the home page file and rename it as **COURSES**

Open the **COURSES** file to make these changes:

- page title – Courses
- include a table using information from **WEBPAGE**

(4)

(iii) Create links between the two pages.

(1)

SAVE the Courses page as **COURSES**

RESAVE the home page as **INDEX**

TAKE a screenshot of your Courses page in a web browser.

PASTE the screenshot in document **TASK A3**

DISPLAY the HTML code for the home page.

COPY AND PASTE the HTML code in document **TASK A3**

RESAVE TASK A3

PRINT TASK A3

Task A3b

OPEN a new word processing document.

ENTER your name, candidate number and centre number in the header.

SAVE the document as **TASK A3b**

Simon wants you to make these changes to the HTML code for the home page:

- text colour for Introductory Text – black (#000000)
- page title – underline <u>

(2)

RESAVE INDEX

DISPLAY the HTML code for the home page.

COPY AND PASTE the HTML code in document **TASK A3b**

HIGHLIGHT the code to show where the changes were made.

RESAVE TASK A3b

DO NOT PRINT at this stage.

Task A3c

Answer this question in the document **TASK A3b**

State and justify **one** improvement you would make to your website.

(2)

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Mark scheme

<table>
<tr><td>A3ai</td><td>Marks in bold, italics can only be awarded from the HTML

The HTML code must include:
1. background colour – Dark Sea Green (#8FBC8F) – on any page (1)
2. text colour for Introductory Text – Midnight Blue (#191970) (1)
3. company name ‘Celtic Springs Scuba’ set to <h1> </h1> (1)
4. page title - bold , italics (1)
5. two relevant images on the home page (1)
6. square images on at least one page (1)
7. images of similar size on all pages (1)
8. images are vertically aligned (left, right or centre aligned) on at least one page (1)
9. an image link (includes the correct protocol, e.g. http://www.csscuba.net) (1)
10. include any section of text set as <p> (1)
11. email address and telephone number (01632 444675) (1)
12. email link: mailto:simon@csscuba.net (1)
13. the home page consistent with the design structure (1) – refer to QP</td><td>13</td></tr>
<tr><td>A3aii</td><td>Webpage including table:
1. webpage title – Courses (1)
2. table includes 5 columns (1)
3. table includes 6 rows (1)
4. correct headings and values (1)

<table><tr><th>Course</th><th>No of classroom Sessions</th><th>No of pool sessions</th><th>No of dives</th><th>Depth (m)</th></tr><tr><td>Open Water (OW)</td><td>2</td><td>2</td><td>4</td><td>18</td></tr><tr><td>Advanced OW</td><td>2</td><td>0</td><td>5</td><td>30</td></tr><tr><td>Wreck Diving</td><td>1</td><td>0</td><td>4</td><td>-</td></tr><tr><td>Deep Diving</td><td>1</td><td>0</td><td>4</td><td>40</td></tr><tr><td>Dry Suit</td><td>1</td><td>1</td><td>2</td><td>-</td></tr></table>
Do not penalise for incorrect spelling or case
Only award marks 2 and 3 if it is clearly a table</td><td>4</td></tr>
<tr><td>A3aiii</td><td>HTML - functional link from Home page to Courses page / Courses page to Home page</td><td>1</td></tr>
<tr><td>A3b</td><td>HTML changes:
1. text colour for Introductory Text – black (#000000) (1)
2. page title – underline <u> (1)

Award mark point 2 if only visible from browser view</td><td>2</td></tr>
</table>

General comments

Most candidates created the webpage following the design provided in the question paper. The quality of some of the printouts was poor and, therefore, the images used were not always clear to see.

Candidates were required to create an HTML table using web authoring software. Candidates who simply copied and pasted the text from the word processing document were not awarded the mark.

Some of the marks for this question (9 marks) were available only from the HTML code. Candidates were expected to show the code they created, and it would have been useful for them to have only included the code for the evidence needed rather than printing numerous pages of code. Some candidates highlighted the code, which was useful.

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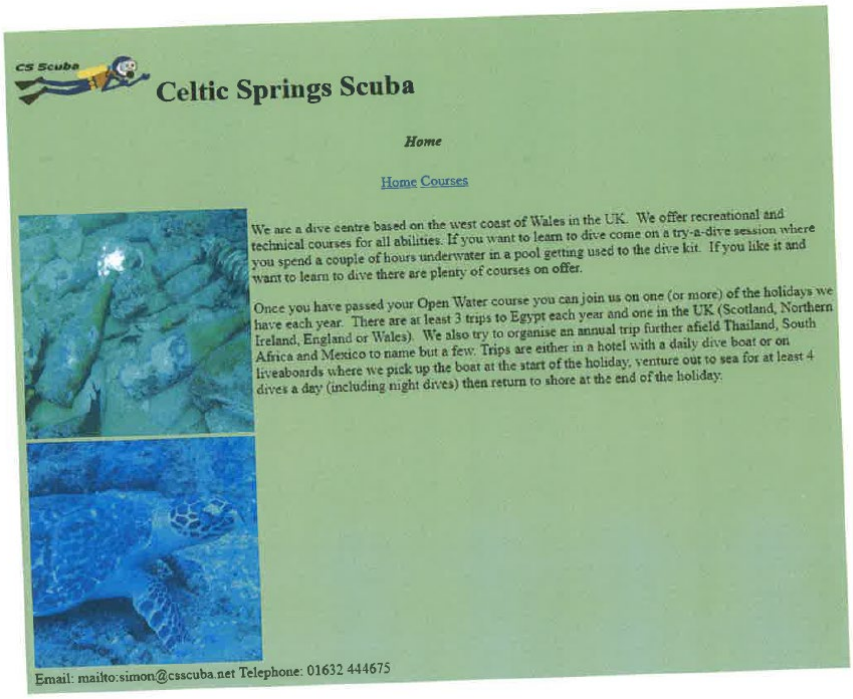
Exemplar response A



Celtic Springs Scuba

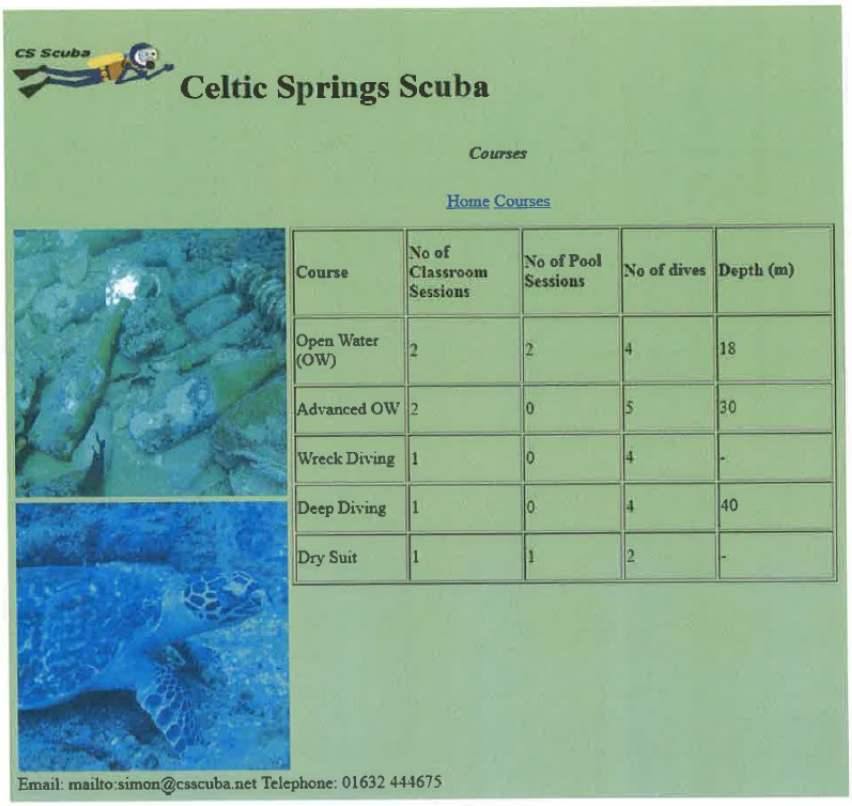
Home

Home Courses

We are a dive centre based on the west coast of Wales in the UK. We offer recreational and technical courses for all abilities. If you want to learn to dive come on a try-a-dive session where you spend a couple of hours underwater in a pool getting used to the dive kit. If you like it and want to learn to dive there are plenty of courses on offer.

Once you have passed your Open Water course you can join us on one (or more) of the holidays we have each year. There are at least 3 trips to Egypt each year and one in the UK (Scotland, Northern Ireland, England or Wales). We also try to organise an annual trip further afield Thailand, South Africa and Mexico to name but a few. Trips are either in a hotel with a daily dive boat or on liveaboards where we pick up the boat at the start of the holiday, venture out to sea for at least 4 dives a day (including night dives) then return to shore at the end of the holiday.

Email: mailto:simon@csscuba.net Telephone: 01632 444675



Celtic Springs Scuba

Courses

Home Courses

Course	No of Classroom Sessions	No of Pool Sessions	No of dives	Depth (m)
Open Water (OW)	2	2	4	18
Advanced OW	2	0	5	30
Wreck Diving	1	0	4	-
Deep Diving	1	0	4	40
Dry Suit	1	1	2	-

Email: mailto:simon@csscuba.net Telephone: 01632 444675

```
body {
        background-color: #8fbc8f;
}
```

```
<tr>
  <td height="46" colspan="2"><h1><img src="file:///P|/Da
height="52" /><strong>Celtic Springs Scuba </strong></h1>
```

```
</tr>
<tr>
  <td width="172" height="112"><a href="www.csscuba.net"><img src="file:///P|/Data files/My
Files/Website/ImageONE.jpg" width="250" height="250" border="0" /></a></td>
  <td width="711" rowspan="2" valign="top"><p>We are a dive centre based on the west coast of
the UK.  We offer recreational and technical courses  for all abilities. If you want to learn to d
on a try-a-dive session  where you spend a couple of hours underwater in a pool getting used to th
kit.  If you like it and want to learn to  dive there are plenty of courses on offer.</p>
```

```
>Email: mailto:simon@csscuba.net Telephone: 01632 444675 </td>
```

```
{color: #000000}
```

Examiner's comments:

This response was given 15 marks (for A3a- through to A3b).

There is evidence of using the background colour shown in the code screenshots provided by the candidate.
There was no evidence of using the correct colour for the introductory tex, as no code was found.
H1 was used and shown.
The page title was seen to be in bold and italics on the printed pages.
There were two square relevant images on the home page, however, they were not of similar size on both pages. Images were vertically aligned.
Text was set as <p> and the email address and telephone number were included although this section was not as required in the design document (it should have been centred to the page).
The email had been set up correctly.
The table is appropriate and all values are aligned.
There is a working link between pages and there is evidence of the candidate changing the code. There was no evidence to suggest the underline had been used.

Task B3a

Simon wants you to create a chart to display the discount offered for each cost reference.

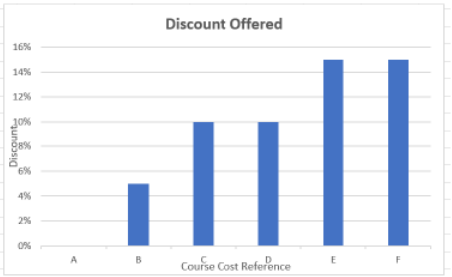
Use the **DETAILS** worksheet to create a suitable chart.

The chart must:

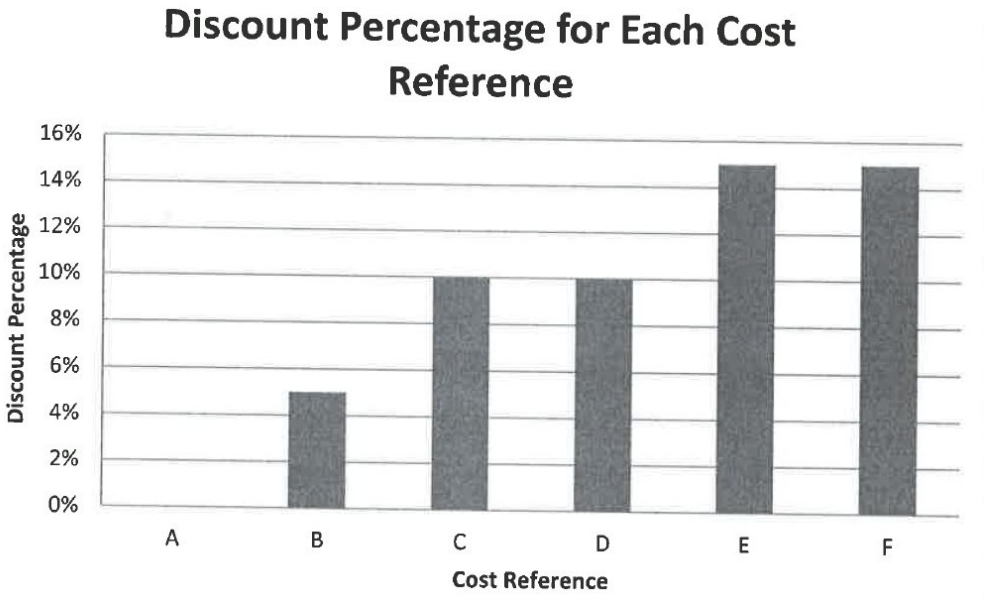
- be fit for purpose
- have a suitable title and values.

(3)

Mark scheme

B3a	Suitable chart to display: 1. Cost references A to F with correct values (1) 2. Title (e.g. Reference to discount) (1) 3. Appropriate X and Y labels (1) Award marking point 2 if a pie chart has been included 	3

Exemplar response A



Discount Percentage for Each Cost Reference
16%
14%
12%
10%
8%
6%
4%
2%
0%
Discount Percentage
A
B
C
D
E
F
Cost Reference

Examiner's comments:

This response was given 3 marks.

This response has a suitable chart with an appropriate title and both X and Y axes have appropriate labels. It achieves the full 3 marks.

There were few instances where a pie chart had been included and most candidates achieved between 2 and 3 marks.

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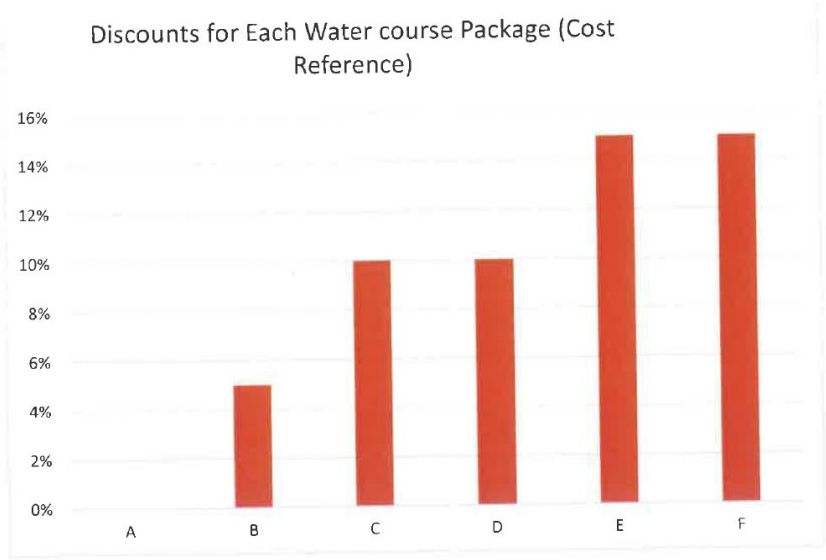
Exemplar response B



Examiner's comments:

This response was given 2 marks.

This response had included the cost references A to F with correct values and an appropriate title with reference to discounts. However, there were no labels on the X or Y axis so the third mark could not be awarded. Where full marks were not awarded, it tended to be for the lack of axes labelling.

Task B4ci

Simon wants you to add hyperlinks and action buttons to the presentation.

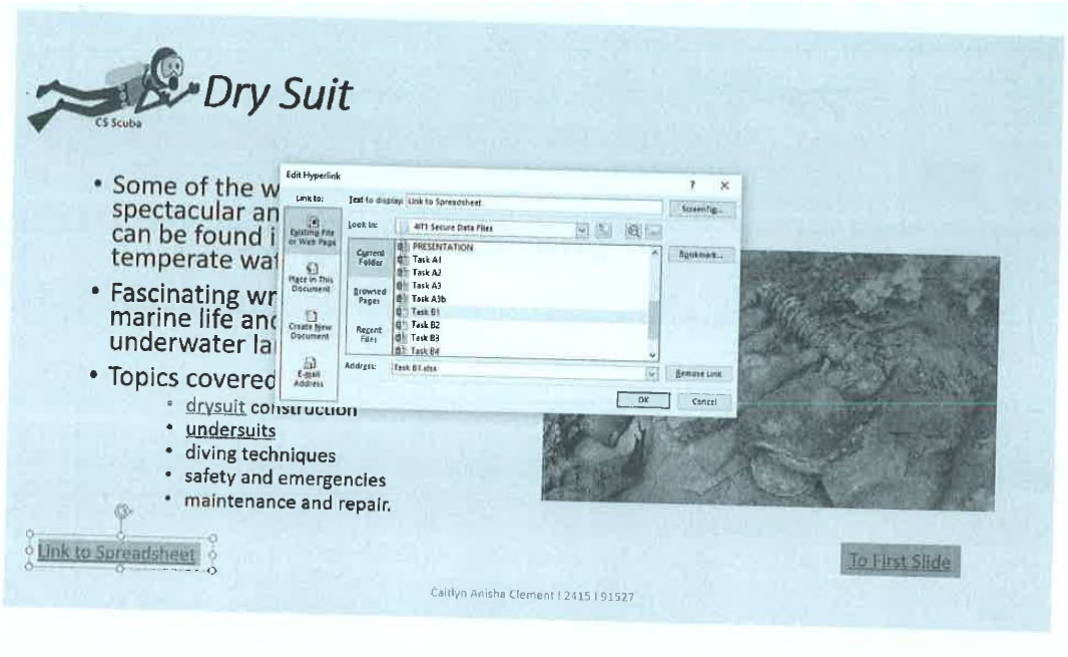
(i) Insert a hyperlink on the final slide to the spreadsheet **TASK B1**

(3)

Mark scheme

B4ci	**Hyperlink**: 1. included on final slide that links to anywhere (1) 2. uses appropriate text (e.g Spreadsheet/Task B1) / image (1) 3. links to TASK B1 spreadsheet (1)	3

Exemplar response A

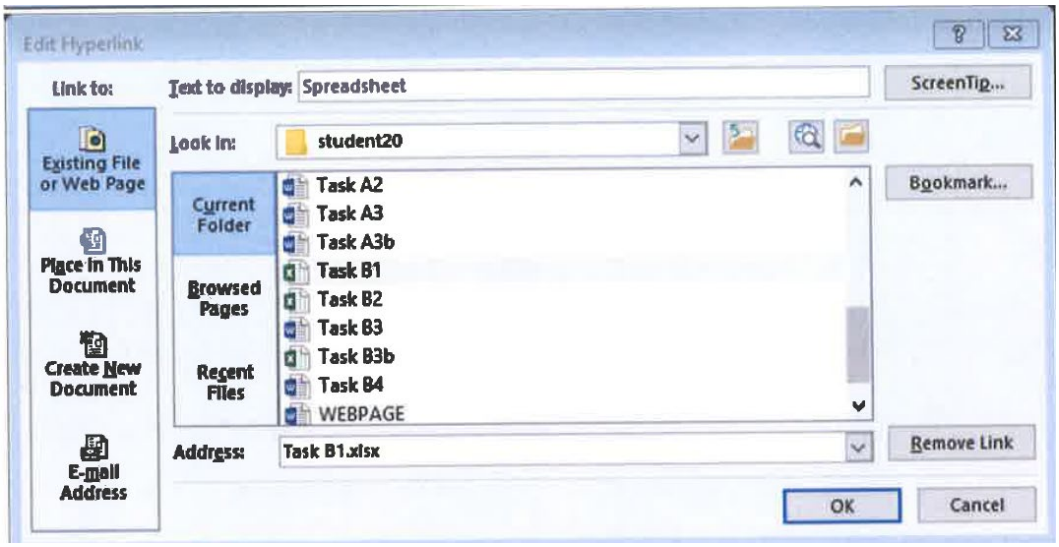


Examiner's comments:

This response was given 3 marks.

This response has carried out the task as required and met the three criteria of the mark scheme. The quality of the screenshot is not excellent but better than many others in this cohort. If the screenshot is not clear, the examiner may be unable to see the work that the candidate has done and may not be able to award marks. It is essential that the quality of the printed work is good enough to ensure that it can be seen clearly.

Exemplar response B



Examiner's comments:

This response was given 1 mark.

This response has included the screenshot to show a link to the spreadsheet (the last mark on the mark scheme). There is no evidence to suggest that the link has been included on the final slide or that it uses an appropriate title.

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