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Cambridge Assessment International Education

Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/31**

Paper 3 Spreadsheets and Website Authoring **February/March 2025**

2 hours 15 minutes

You will need: Candidate source files (listed on page 2)

6175490935

INSTRUCTIONS

- Carry out **all** instructions in each step.
- Enter your name, centre number and candidate number on every printout before it is sent to the printer.
- Printouts with handwritten candidate details will **not** be marked.
- At the end of the examination, put all your printouts into the Assessment Record Folder.
- If you have produced rough copies of printouts, put a cross through each one to indicate that it is **not** the copy to be marked.
- You must **not** have access to either the internet or any email system during this examination.

INFORMATION

- The total mark for this paper is 70.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **8** pages. Any blank pages are indicated.

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[Turn over

You have been supplied with the following source files:

m25calc.csv
m25const.htm
m25logo.jpg
m25plaster.css
m25plaster.mp4
m25spec.htm
m25text.txt

You will create a web page for Tawara Construction to advertise their plastering department.

Task 1 – Evidence Document

Create a new word-processed document.

Make sure your name, centre number and candidate number will appear on every page of this document.

Save this Evidence Document in your work area as **m25evidence_** followed by your centre number_candidate number, for example m25evidence_ZZ999_9999

You will need your Evidence Document during the examination to place screenshots when required.

Task 2 – File Management

1 Create a new folder called **plaster**

Locate only the following files and store them in your *plaster* folder.

m25const.htm
m25logo.jpg
m25plaster.css
m25plaster.mp4
m25spec.htm
m25text.txt

Display the contents of your *plaster* folder showing the folder name, all file names, file extensions, file sizes, frame height, frame width and image dimensions.

Take a screenshot of this folder, making sure that the required information is clearly visible. Place this screenshot in your Evidence Document.

[1]

[Total: 1]

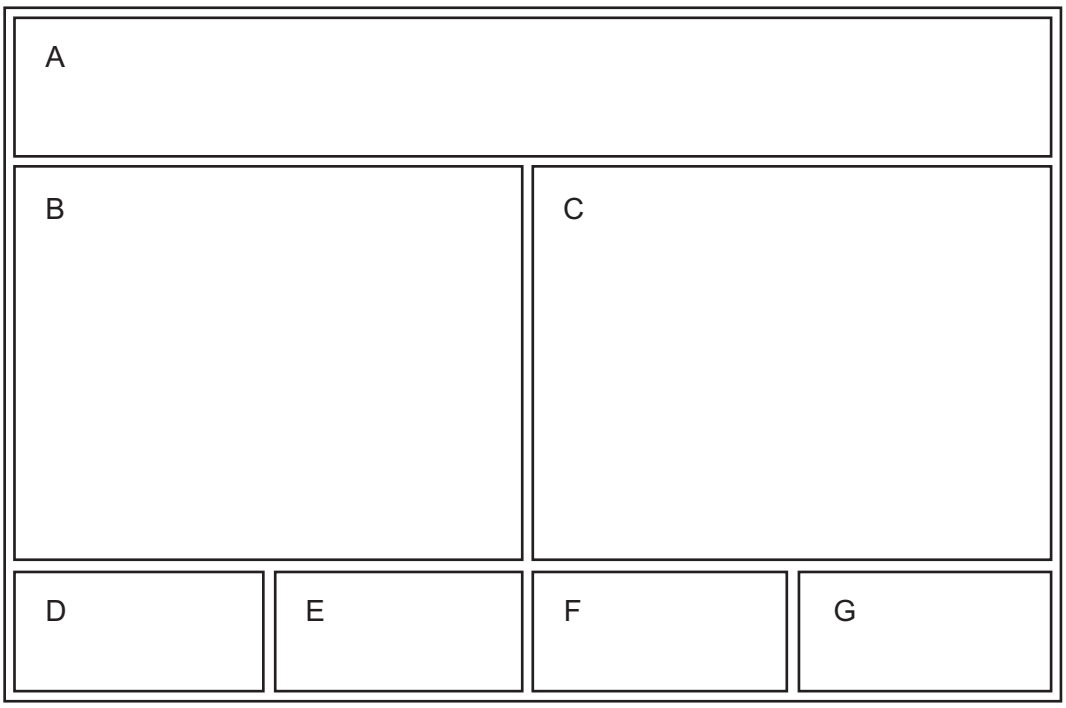
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Task 3 – Web Page

You will create a web page for the Tawara Construction website.

2 Create in your *plaster* folder a web page called **m25plaster.htm**

This web page must be created using a single table and work in all browsers. The table must be centre-aligned and fit 95% of the browser window. The table must have a structure as shown in this diagram:



Each table cell is identified with a letter which must **not** appear on your final web page.

Table and cell borders must appear on the final web page.

[7]

3 Place in cell A the image **m25logo.jpg**

Set the width of this image to 100% of the cell size.

[2]

4 Place in cell B video and source tags to display **m25plaster.mp4**

Make sure that the controls are visible and the video loops when played.

Display an automated text-based error message if the browser does **not** support this video type.

[6]

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[Turn over

5 Place in cell C the text from the file **m25text.txt**

Apply the paragraph style to this text.

[2]

6 Enter in cell D the text **Specialist plastering**

Enter in cell E the text **Other construction**

Enter in cell F the text **Contact us**

Enter in cell G the text **Edited by:** followed by a space and then your name, centre number and candidate number.

Apply the style h2 to all the text in these cells.

[5]

7 Make the text **Specialist plastering** a link to open the web page **m25spec.htm** in a new window called **_blank**

Make the text **Other construction** a link to open the web page **m25const.htm**

Make the text **Contact us** a link to an email editor to prepare an email to **tawara.construction@cambridge.org** with the subject line **More information please!**

[7]

*You will create a new external stylesheet for the website. All colour codes must be displayed in hexadecimal. Your stylesheet must **not** contain HTML or scripting language.*

8 Create a new stylesheet to meet the following specifications:

Place a comment at the start of the stylesheet to contain your name, centre number and candidate number. Set a style for tables so that they are centre-aligned in the browser window. Set the table and cell borders so that they are white, visible and 2 pixels wide.

Save this as an external cascading stylesheet in your *plaster* folder with the file name **m25plaster2_** followed by your centre number_candidate number, for example m25plaster2_ZZ999_9999

Take a screenshot to show the file name and all contents of your stylesheet. Place this in your Evidence Document. Make sure the file name and all contents are clearly visible.

[5]

9 Attach the stylesheet **m25plaster.css** to the web page created in Step 2.

Attach the stylesheet saved in Step 8 to this web page so that it has higher priority than *m25plaster.css*

[2]

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10 Save your web page.

Take a copy of your HTML source, and place this in your Evidence Document.

Display your web page in a browser. If necessary, resize it so that:

- all the page can be seen
- all text can be easily read
- the address bar is visible.

Take screenshot evidence showing your web page in the browser. Place this in your Evidence Document.

[1]

[Total: 37]

Task 4 – Spreadsheet

You will edit a spreadsheet to calculate the surface area of walls in a room.

11 Open and examine the file **m25calc.csv**

Place left-aligned in the header the text **Created by** followed by a space, then your name, centre number and candidate number.

Place right-aligned in the header the text **Created on** followed by a space, the automated date, a space, then the text **at** followed by a space, then the automated time.

Save this as a spreadsheet with the file name **m25area_** followed by your centre number_candidate number, for example m25area_ZZ999_9999

[3]

12 Insert a new row between rows 1 and 2.

In the new row 2, enter the text **All dimensions are in metres**

[2]

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[Turn over

13 Merge cells A1 to B1.

Format this merged cell with a white 24-point sans-serif font on a black background.

Merge cells A2 to B2.

Format the spreadsheet like this:

	A	B
1	**Plastering surface area calculator**	
2	**All dimensions are in metres**	
3		
4	Room height	2.4
5	Room width	5
6	Room length	3.8
7		
8	Door height	2
9	Door width	0.85
10	Reveal depth	0.15
11		
12	Has windows	
13	Window height	0
14	Window width	0
15		
16	Has chimney	
17	Chimney width	0
18	Chimney depth	0
19		
20	Plaster area ceiling	
21	Plaster area walls	

[8]

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14 Place in cell B12 a validation rule to restrict data entry to only the text **Yes** or **No**

Data must be selected from a drop-down list, and no other data must be allowed.

Place in your Evidence Document screenshot(s) showing the validation rules including the validation criteria.

[3]

15 Delete rows 16, 17, 18 and 19. [1]

16 Place in cell B16 a formula to calculate the area of the ceiling.

$$\text{Area} = \text{Room length} \times \text{Room width}$$

[1]

17 Place in cell B17 a formula to calculate the area of the walls.

$$\text{Area} = \text{Room height} \times 2 \times \left(\text{Room length} + \text{Room width}\right) - \left(\text{Door height} \times \text{Door width}\right) + \text{Reveal depth} \times \left(2 \times \text{Door height} + \text{Door width}\right)$$

If a window is present, add this to the area of the walls within the same formula:

$$+ \text{Reveal depth} \times \left(2 \times \text{Window height} + \text{Window width}\right) - \left(\text{Window height} \times \text{Window width}\right)$$

[11]

18 Print your spreadsheet showing the formulae. Make sure that the:

- printout is in landscape orientation
- row and column headings are displayed
- contents of all cells are fully visible.

[2]

19 Print your spreadsheet showing the values. Make sure that the:

- printout fits on a single page
- printout is in portrait orientation
- row and column headings are not displayed
- contents of all cells are fully visible.

[1]

[Total: 32]

Task 5 – Printing the Evidence Document

Save and print your Evidence Document. Make sure your name, centre number and candidate number appear on every page of your Evidence Document.

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