Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/03**

Paper 3 Spreadsheets and Website Authoring **October/November 2025**

2 hours 15 minutes

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

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.

You have been supplied with the following source files:

n25badge.png
n25logo.png
n25rafter.csv
n25stock.csv
n25tc.htm
n25tc.jpg
n25tc1.css

You work for Tawara Construction and will develop a spreadsheet to calculate the lengths and cost of timber rafters used to build a roof.
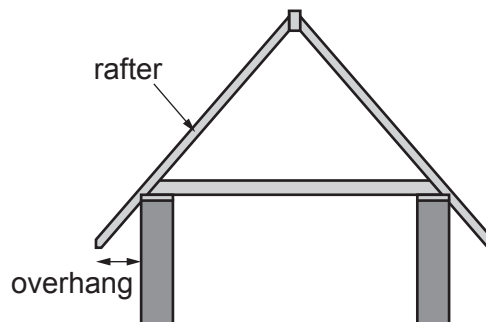
The timber is supplied in standard lengths from 2.4 to 6 metres.

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 **n2503evidence_** followed by your centre number_candidate number, for example n2503evidence_ZZ999_9999

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

Task 2 – Spreadsheet

1   Open and examine the file **n25rafter.csv**

   Place your name, centre number and candidate number right aligned in the header.

   Save this as a spreadsheet with the filename **Rafter_** followed by your centre number_candidate number, for example Rafter_ZZ999_9999

   [1]

2   Place in cells A20 to E36 the contents of the file **n25stock.csv**

   Do **not** change this data.

   [2]

3 Place a formula in cell B6 to convert the length of the overhang from millimetres to metres.

To convert millimetres to metres, you divide the number of millimetres by 1000. [1]

4 Place a formula in cell B9 to calculate the length of the rafter in metres where the length of the rafter is:

$$\text{Length of overhang (m)} + \sqrt{\left(\frac{\text{Width of roof (m)}}{2}\right)^2 + (\text{Height of roof (m)})^2}$$

You may use the SQRT function to calculate the square root within this formula.

[8]

A rafter is cut from a standard size with waste kept to a minimum.

5 Place in cell B10 a formula to look up the minimum standard length needed to make the rafter. [6]

6 Place in cell B11 a validation rule to restrict data entry to only the sizes listed in row 21. Data must be selected from a drop-down list.

Place in your Evidence Document a screenshot showing the validation rule with the criteria used.

[3]

7 Place in cell B12 a formula to look up the cost of the standard length calculated in Step 5 using the size of timber selected in B11. [9]

8 Merge cells A1 to B1.

Format this merged cell with a white 18 point sans-serif font on a black background.

Merge cells A3 to B3.

Format rows 1 to 4 of the spreadsheet to look like this:

	A	B	
1	**Tawara Construction**		
2			
3	Rafter calculator		
4			
5	Length of overhang (mm)	450	
6	Length of overhang (m)	0.45	
7	Width of roof (m)	4.25	

Save your spreadsheet.

[4]

9 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]

10 Print the 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]

11 Model this spreadsheet to find the cost of a rafter, using *175 × 50* timber, for a roof with:

- a width of **3.5** metres
- a height of **1.75** metres
- an overhang of **300** millimetres.

Print the 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 only cells A1 to B12 are printed and fully visible.

[3]

[Total: 40]

Task 3 – File management

12 Create a new folder called **TC**

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

> **n25badge.png**
> **n25logo.png**
> **n25tc.htm**
> **n25tc.jpg**
> **n25tc1.css**

Display the contents of your *TC* folder showing the folder name, all file names, file extensions, file sizes 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]

Task 4 – Web Page

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

13 Create a new stylesheet to meet the following specifications:

Set the background for the web page so that it has a colour with a:

- blue component of **ff**
- red component of **d8**
- green component of **dd**

Set the background to have a single image using the file **n25badge.png** and place this in the top left corner of the page.

Set the styles for all tables so that:

- borders are **not** collapsed
- both border spacing and cell padding are set to 20 pixels
- the tables are right aligned in the browser window.

Create a new class called **centre** that forces text to be centre aligned.

Add a comment at the end of the stylesheet to contain your name, centre number and candidate number.

Save this in external cascading stylesheet file format as **tc2_** followed by your centre number_ candidate number, for example tc2_ZZ999_9999
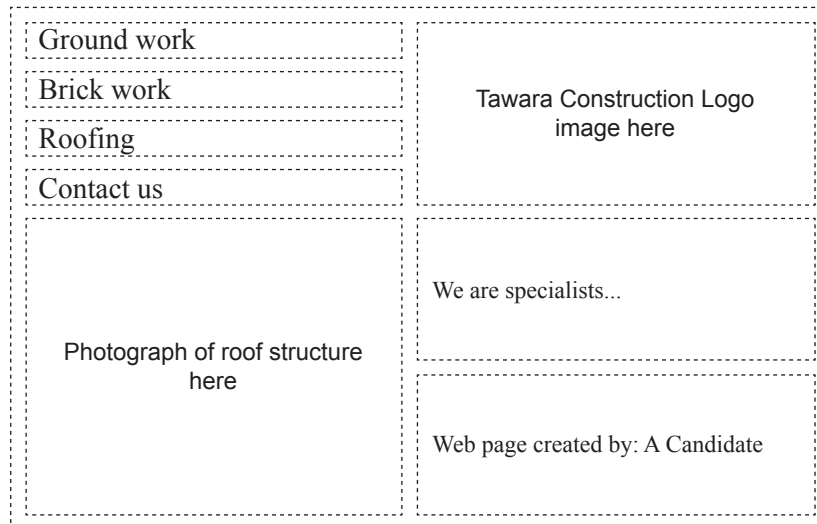
Take a screenshot to show the file name and contents of your stylesheet. Make sure that the file name and all contents are clearly visible. Place this in your Evidence Document.

[13]

14 Open and examine the file **n25tc.htm** in your editing software.

Edit the web page so that it has a structure as shown in the following diagram.

The dotted borders are for your information and show the structure of the table and cells. These must **not** be visible on your web page.

Ground work	Tawara Construction Logo image here
Brick work	
Roofing	
Contact us	
Photograph of roof structure here	We are specialists...
	Web page created by: A Candidate

[2]

15 Attach the stylesheet **n25tc1.css** to this web page.

Attach the stylesheet saved in Step 13 to this web page so that it has higher priority than *n25tc1.css*

[2]

16 Set the title of the web page to **Tawara Construction** [1]

17 Make the text *Contact us* a link to an email editor to prepare an email to **tawaraconstruction@cambridge.org** with the subject line **Quote requested** [3]

18 In the lower right cell of the table replace the text *A Candidate* with your name, centre number and candidate number. Place this text on a new line.

Apply the class **centre** created in Step 13 to all text in this cell.

[3]

19 Set, in the HTML, the name of the default target window to **_self** [1]

20 Set a meta tag in the HTML to include your name as the author of the web page. [3]

21 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: 29]

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.

8

BLANK PAGE