



# Cambridge International AS & A Level

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## INFORMATION TECHNOLOGY

9626/02

Paper 2 Practical

February/March 2025

2 hours 30 minutes

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

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### INSTRUCTIONS

- Carry out every instruction in each task.
- Save your work using the file names given in the task as and when instructed.
- You must **not** have access to either the internet or any email system during this examination.
- You must save your work in the correct file format as stated in the tasks. If work is saved in an incorrect file format, you will **not** receive marks for that task.

### INFORMATION

- The total mark for this paper is 90.
- The number of marks for each question or part question is shown in brackets [ ].

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

You have been supplied with the following source files:

**m25credits.png**  
**m25customer.csv**  
**m25TTT.mp4**

You must use the most efficient method to solve each task. All work produced must be of a professional standard and contain your candidate details.

You will edit a short video showing how the game TTT is played. All text must be displayed in a consistent sans-serif font. Do **not** use transitions unless instructed to do so. The video clip was recorded by TTTEnterprises.

- 1 Open your video editing software and set the aspect ratio to 16 : 9.

Open and examine the video file **m25TTT.mp4**

Trim this video clip so that it starts after 2 seconds.

Remove the end of this clip so that only 15 seconds remain.

Set the clip so that it runs at half the original speed.

Export your video clip in **.mp4** format with the same resolution as the original file and with the filename **MyVideo\_** followed by your centre number\_candidate number.  
For example, MyVideo\_ZZ999\_9999

Open the file **m25credits.png** in your image editing software. Resize this image, without cropping, so that it matches the frame width and height of the video clip.

Save this image as **credits.png**

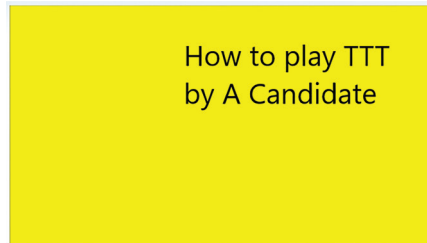
[7]

## 2 Create a video clip to match this storyboard.

Time 0 seconds:

- Place the title How to Play TTT by A Candidate in the top right-hand corner of the screen.
- Replace the text *A Candidate* with your name.
- Use a solid yellow fill for the background.

Your image must be like this:



Time 6 seconds:

- Background remains.
- Title is removed.

Time 7 seconds:

- Background remains.
- The text A 2-player game placed in the top right-hand corner of the screen.
- Formatting style is kept the same as the title.

Time 11 seconds:

- Use a dissolve transition to place the file **MyVideo\_** that you saved in **Question 1**.

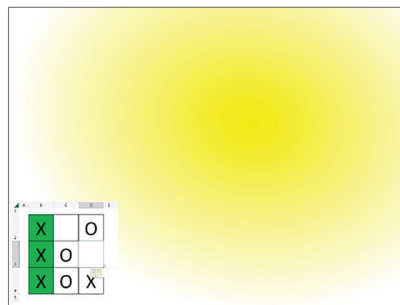
Time 41 seconds:

- Take a still image from a frame in the video showing the three squares that are green.
- Crop this still image so that only cells A1:E5 are visible.

Your image must be like this:

	A	B	C	D	E
1		X			O
2		X	O		
3		X	O		
4		X	O	X	
5					

- Place this image on the image **credits.png** so it looks like this:



- Use this image as a background for the credits.
- Display appropriate credits to scroll up the screen.
- Include the text Video edited by: followed by your name, centre number and candidate number

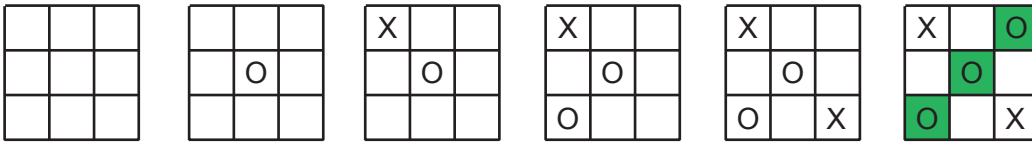
Export your video clip in **.mp4** format as **TTTVideo\_** followed by your centre number\_candidate number.

For example, TTTVideo\_ZZ999\_9999

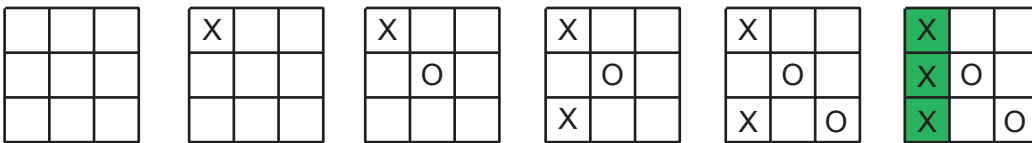
[20]

You have been asked to create a small game of TTT in a spreadsheet. This is a two-player game that starts with a blank board. Each player places their symbol (either an O or an X) into one square, then the next player takes a turn. A player wins the game when they get three of their symbols in a vertical, horizontal or diagonal line. For example:

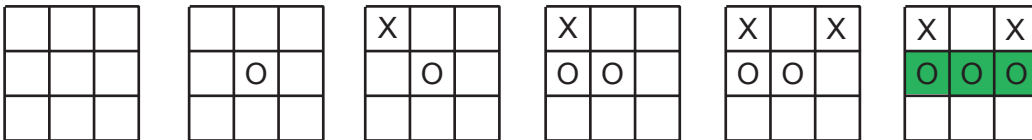
Game 1 – O goes first:



Game 2 – X goes first:



Game 3 – O goes first:



3 Create a new spreadsheet that looks like this:

	A	B	C	D	E
1					
2		O	O	X	
3		X	X	X	
4		O	X	O	
5					

Cells B2 to D4 must contain a 48-point sans-serif font. Restrict the data entry for cells B2 to D4 so they can only contain an upper-case letter O, an upper-case letter X or be blank. Allow the user to select these letters from a drop-down menu. Display an appropriate prompt for the user and an error message if incorrect data is entered.

[10]

- 4 Use **eight** conditional formatting rules so that only the three winning cells have a green background.

Save your spreadsheet as **TTT\_** followed by your centre number\_candidate number.  
For example, TTT\_ZZ999\_9999

[14]

- 5 Create a new word-processed document and save it as **Evidence\_** followed by your centre number\_candidate number.

For example, Evidence\_ZZ999\_9999

In this new document, create a test plan to test only **one** of your eight conditional formatting rules. Within your test plan, identify:

- what is to be tested
- the rule used
- the three cells it applies to.

Select the appropriate test data for all possible results for this rule.

Use this test plan to fully test this rule. Record the results in your test plan, and save the document.

[12]

Tawara Scuba Sales stores details of its customers and wishes to use a simple database to store this data. Each part of the address and zip code are separated with the @ symbol. The telephone numbers and area codes must be stored as two fields.

- 6 Open and examine the file **m25customer.csv**

Create, in your Evidence document, a data dictionary for a database using this data, where the database will be normalised to first normal form (1NF).

[19]

- 7 In the file, edit the data so that it can be used to create this database. Sort the data into customer number order.

Save this data in an appropriate file format with the filename **Data\_** followed by your centre number\_candidate number.

For example, Data\_ZZ999\_9999

[3]

- 8 Use your data dictionary and the file saved in **Question 7** to create the database normalised to first normal form (1NF).

Save the database as **Customer\_** followed by your centre number\_candidate number.

For example, Customer\_ZZ999\_9999

[5]

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