Cambridge Assessment International Education

Cambridge International AS & A Level

INFORMATION TECHNOLOGY **9626/02**

Paper 2 Practical **October/November 2025**

2 hours 30 minutes

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

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 [ ].

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

You have been supplied with the following source files:

n25manta.mp4
n25robot.csv
n25sharks.mp4
n25turtle.mp4

You must use the most efficient method to solve each task. All work produced must be of a professional standard and suit the business context.

You work for Tawara Robotics. The company makes small industrial robot arms like this:

You will design a database to hold details of the robots that have been sold and the customers of the company. The data is currently held in a spreadsheet. The robot arm lengths are standard sizes and are measured in millimetres. There are six types of sensors used, and no robot can be equipped with more than 8 sensors of any one type. All fields must use appropriate names and data types.

1 Carefully examine the data in the file **n25robot.csv** and identify data that is dependent upon the robot model.

Create a relational database, normalised to third normal form (3NF), named **Robot_** followed by your centre number_candidate number.
For example, Robot_ZZ999_9999

Use appropriate data types, field lengths and validation routines in your database. All Boolean data types must be displayed in Yes/No format.

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2 Create a query to find details of robots supplied to **Ling Enterprises**. The query must calculate the total number of sensors used on each robot. Create a report sorted in order of model with a layout like this:

Robots supplied to: Ling Enterprises

Ling Enterprises
Broughan Edge
Mile End
Tawara
01632960897

Report prepared by: A Candidate ZZ999 9999

Serial No	Model	Number of Sensors	Arm Length	Actuator Type	Joint Type	Vision System	Microphone
TR00174	Alpha	23	900	Electric	Linear	No	No
TR00313	Alpha	16	600	Electric	Linear	No	No
TR00088	Alpha	10	450	Electric	Rotational	No	No
TR00420	Alpha	12	900	Electric	Revolving	No	No
TR00096	Alpha	12	450	Electric	Rotational	No	No
TR00326	Bravo	14	600	Pneumatic	Linear	No	No
TR00327	Bravo	12	300	Pneumatic	Revolving	No	No

Export this report in pdf format in portrait orientation so it fits on a single page wide. Use the file name **step_2_** followed by your centre number_candidate number.
For example, step_2_ZZ999_9999

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3 Create a copy of the query and report created in step 2. Edit the query so that it becomes a dynamic parameter query. The query must ask the user to input the name of the customer and the model of the robot purchased. Save the query with the name **step_3**

Edit the report so that it uses the query *step_3* as its data source. Sort the report into ascending order of serial number. Edit the report to have a layout like this:

Robots supplied to: Ling Enterprises

Model Golf

Report prepared by: A Candidate ZZ999 9999

Ling Enterprises
Broughan Edge
Mile End
Tawara
01632960897

Serial No	Number of Sensors	Arm Length	Actuator Type	Joint Type	Vision System	Microphone
TR00023	18	450	Hydraulic	Linear	Yes	No
TR00117	16	900	Hydraulic	Rotational	Yes	No
TR00119	13	450	Hydraulic	Revolving	Yes	No
TR00146	17	750	Hydraulic	Rotational	Yes	No
TR00166	4	900	Hydraulic	Rotational	Yes	No
TR00209	16	900	Hydraulic	Rotational	Yes	No
TR00403	12	300	Hydraulic	Rotational	Yes	No

Use your query to produce a single-page report to display all the **Alpha** robots made for **PPW**

Export this report in pdf format with the file name **step_3_** followed by your centre number_ candidate number.
For example, step_3_ZZ999_9999

Use your query to produce a single-page report to display all the **Golf** robots made for the company **Wendy White**

Export this report in pdf format with the file name **step_3a_** followed by your centre number_ candidate number.
For example, step_3a_ZZ999_9999

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4 Create a pivot table using the data provided in **n25robot.csv** to calculate the average number of each type of sensor used for each model of robot. Display each average number to an appropriate number of decimal places. Do **not** display the totals.

Apply conditional formatting to all cells in the pivot table so that only the cell that contains the largest value is displayed with a yellow background.

Save this in a spreadsheet called **step_4_** followed by your centre number_candidate number.
For example, step_4_ZZ999_9999

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The research and development team are developing an underwater robot to take photographs and videos. They will show the results to their manager. You are required to edit some of these video clips. Do **not** use transitions unless instructed to do so.

5 Open your video editing software. Set the aspect ratio to 16 : 9. Create a video clip to match this storyboard.

All text must be displayed in a consistent sans-serif font.

Time 0 seconds:

Take a still image from the first frame of the video **n25sharks.mp4** and display this as the background. Place the name of the company as a title in the top right-hand corner so that it does **not** overlap the shark.

Time 3 seconds:

The background and title remain. Add the text **TRX-41 trial dive footage** in the top right-hand corner as a subtitle. Make sure this text is below the title and does **not** overlap the shark.

Time 7 seconds:

All text is removed, and the video **n25sharks.mp4** starts.

When the clip ends, use a dissolve transition into the video file **n25turtle.mp4**

When the clip ends, use the same transition into the video file **n25manta.mp4** and have it play at half the normal speed.

Time 20 seconds:

Trim the clip to remove the end so that only 20 seconds remain in total.

Display appropriate credits to scroll up the screen. These must be displayed while the end of the manta video is playing and be of appropriate length. Include in the credits the text **Edited by:** your name, centre number and candidate number.

Export the clip in **.mp4** format with a resolution of 854 × 480 using the file name **TRXvideo_** followed by your centre number_candidate number.
For example, TRXvideo_ZZ999_9999

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