



GCE AS ELECTRONICS

SUMMARY OF ASSESSMENT

Summer 2022 only

Component 1: Principles of Electronics
Written examination: 2 hours 30 minutes
80% of qualification

A mix of short answer and extended answer questions with some set in a practical context.

Component 2: System design and realisation tasks
Non-exam assessment
20% of qualification

Task 1

A design and realisation task to design a digital system to solve an identified problem, need or opportunity.

Task 2

A design and realisation task to test an analogue circuit against a specification.

Task 3

A design and program task to create a microcontroller system programmed via a flowchart to solve an identified problem, need or opportunity.

Summary of changes

Component 1:

There is no change to this component.

Advance Information on the focus of the content of the exam has been provided for this component. The Advance Information can be found [here](#).

Component 2:

The adaptation allows learners to complete their final circuit by using circuit simulation if they are unable to build a complete physical circuit. This is in the same way sub-system development can be simulated or physically prototyped.

The adaptation allows if the final circuit is simulated:

- the organised physical circuit layout to be assessed through a drawing of the layout plan for the circuit showing all components and wiring;
- testing of the simulated system prototype, to enable a detailed analysis of the results using standard scientific convention including relevant electrical measurements.

These adaptations are to be marked in the same way as evidence provided for a complete hardwired prototype.

This linear qualification will be available in **Summer 2022 only**.

Candidates entering the qualification in 2023 should use the accredited [specification](#).