

Summary of Assessment

Component 1: Discovering Electronics

Written examination: 1 hour 30 minutes
40% of qualification

A mix of short answer questions, structured questions and extended writing questions, with some set in a practical context

Component 2: Application of Electronics

Written examination: 1 hour 30 minutes
40% of qualification

A mix of short answer questions, structured questions and extended writing questions, with some set in a practical context

Component 3: Extended system design and realisation task

Non-exam assessment
20% of qualification

An extended system design and realisation task to assess electronics skills

Component 1 – Discovering Electronics

Written examination: 1 hours 30 minutes

40% of qualification – 80 marks

This component covers the following topics:

- | | |
|---------------------------------------|--------------------------------|
| 1. Electronic systems and sub-systems | 4. Switching circuits |
| 2. Circuit concepts | 5. Applications of diodes |
| 3. Resistive components in circuits | 6. Combinational logic systems |

Component 2 – Application of Electronics

Written examination: 1 hours 30 minutes

40% of qualification – 80 marks

This component covers the following topics:

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|---------------------------|---|
| 1. Operational amplifiers | 4. Interfacing digital to analogue circuits |
| 2. Timing circuits | 5. Control circuits |
| 3. Sequential systems | |

Component 3 – Non-exam assessment (NEA) Extended system design and realisation task

20% of qualification – 40 marks

Task

- A design and realisation task based on an individually identified problem, context or opportunity.
- Research and analysis of the problem to develop a design specification.
- Develop a system from a series of sub-systems which will be tested individually before assembly and tested as a complete system.
- Evaluate the performance of developed system against the design specification and suggest improvements that could be made.