Task 4 – Evaluation and implementation

You must:

a) produce a virtual model of the design using appropriate software incorporating any changes you have decided to make in response to feedback or as a result of manufacturing and testing
b) produce a revision control document or report that is typically 500 words justifying why changes were made or not made as a result of the peer review feedback
c) produce a report evaluating the proposed design. The report should typically be 800 words. This must include:

- an explanation of the test methods used, reasons for their use and their limitations
- a summary of the capabilities of the circuitry
- an evaluation of the fitness for purpose of the design proposal and its conformance to the design criteria and specification
- the information necessary for a third party to implement the prototype
- an outline of any additional factors that may need to be considered during the implementation, including:
    - cable types to be used to connect the sensors to the circuitry, if appropriate
    - health and safety considerations
    - applicable requirements from wiring regulations
- any improvements or adaptions required to the prototype, including any reasoning and justifications if adaptions or improvements are not required.

Conditions of assessment:

- the time allocated for this task is **6 hours**
- you must carry out the task on your own, under **controlled conditions.**

Controlled conditions:

- you must only work on the tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage which cannot be accessed
- you must not share or discuss your work with other candidates
- you are not permitted to bring any materials into the assessment session.

What must be produced for marking:

- outcomes of virtual modelling
- revision control document
- evaluation and implementation report.

Resources:

- copies of completed documentation from task 1 and 2 and peer review form from task 3
- access to the internet for research: costs, component data and production information
- manufacturer's datasheets (for electronic components)
- wiring regulations.

End of assessment

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