

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:
 - the information necessary for a third party to implement your model, including health and safety considerations
 - calculations of the operating efficiency of the lifting device
 - an explanation of the test methods used and the reasons for their use and limitations
 - an evaluation of the fitness for purpose of the lifting device and its conformance to the specification
 - any improvements or adaptations required to the model, including any reasoning and justifications if adaptations 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 tasks 1 and 2
- feedback record form and peer review form from task 3
- internet access for research (e.g. costs, component data and production information)
- manufacturer's datasheets (for materials and components)
- scientific calculator.

End of assessment

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