

# Moderation for VCE Systems Engineering

# School-based Assessment

## School-assessed Coursework

Provides for the development of e key skills through the exploration of key knowledge as detailed in the areas of study.

Learning and teaching activities should support exploration, informing the development of meaningful School-assessed Coursework processes.

## School-assessed Task

Provides for the development of a design brief, intentions, processes, evaluation and a record of evidence.

Learning and teaching activities should scaffold, support and critically engage with the evolution of the School-assessed task.

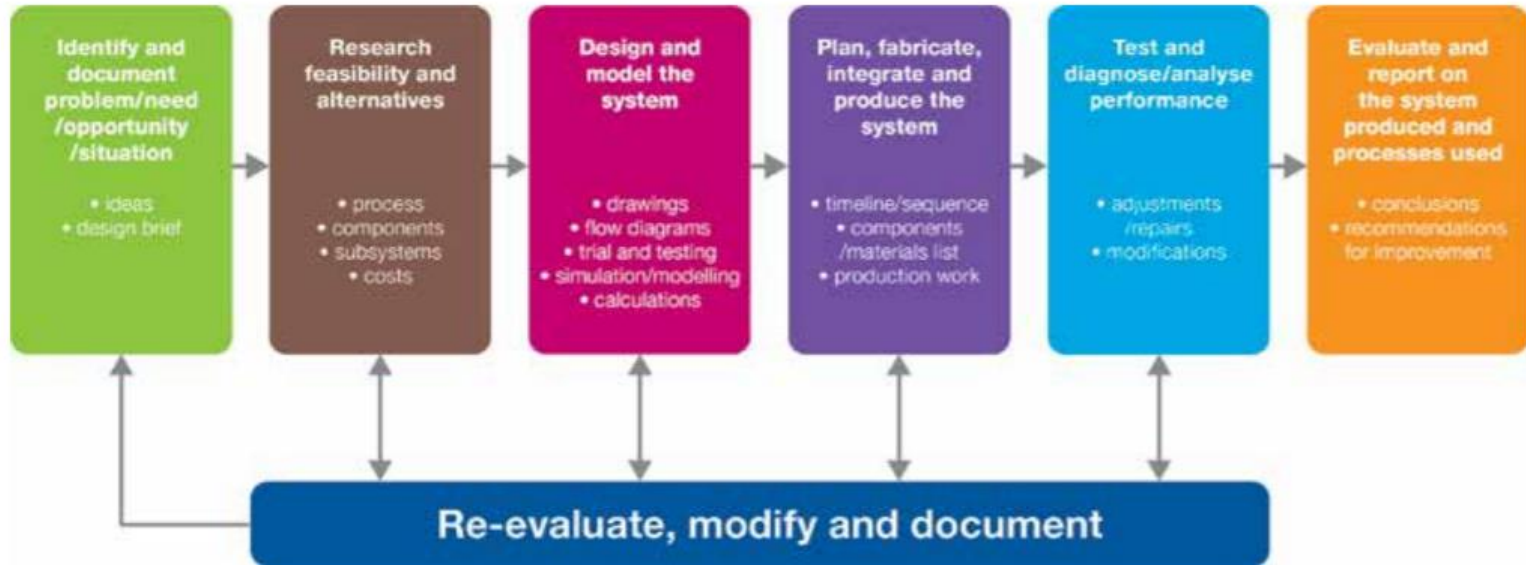
# School-assessed Coursework

Outcomes	Marks allocated	Assessment tasks
<b>Outcome 2</b> Discuss the advantages and disadvantages of renewable and non-renewable energy sources, and analyse and evaluate the technology used to harness, generate and store non-renewable and renewable energy.	50	Any one or a combination of: <ul style="list-style-type: none"><li>• a short written report in the form of a media analysis or a case study or based on structured questions</li><li>• a multimedia/simulation presentation or report</li><li>• an oral presentation.</li></ul>
<b>Total marks</b>	50	

# School-assessed Coursework

Outcomes	Marks allocated	Assessment tasks
<b>Outcome 2</b> Evaluate a range of new or emerging systems engineering technologies and analyse the likely impacts of a selected technology.	50	Any one or a combination of: <ul style="list-style-type: none"><li>• a written report in the form of a case study or a media analysis or based on structured questions</li><li>• a multimedia/simulation presentation or report</li><li>• an oral presentation.</li></ul>
<b>Total marks</b>	50	

# Systems engineering process



# School-assessed Task

Outcomes	Assessment tasks
<b>Unit 3</b> <b>Outcome 1</b>  Investigate, analyse and apply concepts and principles, and use components to design, plan and commence production of an integrated and controlled mechanical and electrotechnological system using the systems engineering process.	A record of investigation, design, planning and production. AND Preliminary production work to create a mechanical and electrotechnological integrated and controlled system.
<b>Unit 4</b> <b>Outcome 1</b>  Finalise production, test and diagnose a mechanical and electrotechnological integrated and controlled system using the systems engineering process, and manage, document and evaluate the system and processes, as well as their use of it.	Completion of production work accompanied by a record of progress and modifications (images and text material). AND A record of diagnostic testing and performance data. AND A report that evaluates and suggests improvements to the system with reference to the factors that influenced its creation and to the student's use of the systems engineering process.



# For further information

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