

MARKING CRITERIA AND STUDENT FEEDBACK									
MODULE: L4 Principles of Systems Engineering (ACDA4005)									
ASSIGNMENT: Development and Evaluation of a Test, Trial Project using Systems Engineering Approaches									
STUDENT: Steven James (1810370)									
DATE: 30/04/20 13/07/20 (COVID-19 related disruption - adjusted to deadline)									
This section details the assessment criteria. The extent to which these are demonstrated by you determines your mark. The marks available for each criterion are shown. Lecturers will use the space provided to comment on the achievement of the task(s), including those areas in which you have performed well and areas that would benefit from development/improvement.									
Common Assessment Criteria Applied		Marks available	Marks awarded						
1. Engagement with Literature Skills (including reading, referencing, academic conventions and academic honesty)									
60-69%: Engagement with a wide range of literature, including sources retrieved independently. Selection of relevant and credible sources. Generally sound referencing, with no/very few inaccuracies or inconsistencies. The marks for this section were determined by the level of research which you conducted, the sources you used and way this material was used to either inform or validate the decisions which you made or the views documented in your work. Remember, it's not purely, what you research and how well you follow referencing protocols, it's how your research actually informs/influences your work. You have cited a wide range of credible sources in your work. Although the range could be even wider, you are showing, in this report that you are able to support research in appropriate domains and are able to use what you have learned, read to support your work well.		15	10.4						
2. Knowledge and Understanding Skills Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.									
60-69%: Knowledge is reasonably extensive. Exhibits very competent critical understanding of the well established concepts and principles of the subject and the main methods of enquiry. Breadth and depth of knowledge. The marks for this section were determined by evaluating the extent to which you used, knowledge and facts associated with systems engineering approaches in your work. When evaluating your work, the models and methods you chose to use were evaluated - along with the appropriateness of their selection. Your report evidences that you have an excellent understanding of the application as well as many of the systems engineering approaches employed. This comes through in both the use of tools and techniques and in the various sections of your report - particularly concept designs and the system test sections.		20	13.4						
3. Cognitive and Intellectual Skills Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence									
60-69%: Sound evaluation of the underlying concepts and principles. Can interpret qualitative and quantitative data accurately. Ability to devise arguments using evidence to make mostly appropriate and valid judgements. The marks for this section were determined by evaluating the extent to which you used analytical approaches in your work. These could have included the use of analytical techniques to improve your understanding of the criticality of system features. You have made great use of Quality Function Deployment and Failure Modes Effects Analysis. Furthermore, your identification of the classic 'V' model as your systems engineering approach is a sound choice.		25	17.3						
4. Practical Application Skills Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.									
50-59%: A good and appropriate application of established methods, materials, tools and/or techniques. Clear appreciation of the context of the application. Mainly consistent, accurate and logical application of theory to practice, making appropriate links between the two. Can identify problems and propose mostly appropriate solutions outside the context in which they were first studied The marks for this section were determined by evaluating the extent to which you have appraised effectiveness and limitations of the tools, techniques and approaches which you have applied in your work. For example, have you evidenced that you understand the strengths, limitations and appropriateness of the approaches which you have taken in the various stages of the project? Within your report in general as well as in the conclusion specifically, you have demonstrated that you understand why you have selected the tools you have used and are aware of their limitations when used as part of a holistic systems engineering approach.		25	14.5						
5. Transferable Skills for Life and Professional Practice Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation.									
70-84%: Can communicate professionally confidently and consistently in a suitable medium for the audience. Work is coherent, very fluent and is presented proficiently. Can work autonomously with initiative. Where relevant can work professionally within a team, showing leadership skills as appropriate, and meeting obligations. Demonstrates excellent skills for employment requiring the exercise of personal responsibility and decision-making and an appetite for further development The marks for this section were determined by evaluating how effectively and professionally, you presented your work. This includes, the appropriateness of the terminology and terms you've used, the clarity and structure of your written work and the standard of the general layout and presentation detailed in the report. Your report structure is generally very clear and logical. The text is clear and concise. In most cases, the images you have included are comprehensive and very professional. One of the concept drawings was a little too 'rough and ready' for a report of this nature. Don't be afraid to redraw very rough sketches with some basic drawing tools if you wish to include them.		15	12						
Assignment Mark (Assessment marks are subject to ratification at the Exam Board. These comments and marks are to give feedback on module work and are for guidance only until they are confirmed.)		<table border="1"> <thead> <tr> <th colspan="2">Late Submission Penalties (tick if appropriate)</th> </tr> </thead> <tbody> <tr> <td>Up to one-week late</td> <td></td> </tr> <tr> <td>Over one week late</td> <td></td> </tr> </tbody> </table>		Late Submission Penalties (tick if appropriate)		Up to one-week late		Over one week late	
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