

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: Alexander Dand (1810440)			
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)			
70-84%: Engagement with an extensive range of relevant and credible literature. Consistently accurate application of referencing. 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 clearly researched this assignment thoroughly and have evidenced this in your report using appropriate referencing conventions. It is great to see that you are using the referenced statements to buttress your own statements and conclusions.		15	12
2. Knowledge and Understanding Skills Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.			
70-84%: Excellent, detailed knowledge and highly critical understanding of the well established concepts and principles of the subject and the main methods of enquiry. 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 demonstrates that you have accrued a detailed and comprehensive level of knowledge and understanding of both the systems engineering approach as well as the subject specific knowledge relating to your chosen application.		20	16.4
3. Cognitive and Intellectual Skills Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence			
70-84%: Excellent critical evaluation and analysis of concepts and principles leading to logical, evidence-based, reasoned arguments and judgements. Explicit recognition of other stances and a strong awareness of the limits of their knowledge. A capacity for independent thought and ability to 'see beyond the question', suggesting some grasp of the broader field and wider concepts. 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. Your work utilises highly appropriate systems engineering approaches and analytical tools. It's good to see that you have expanded upon some of the topics and techniques introduced during lectures as well as researching techniques outside of the covered material. The Failure Modes Effects Analysis which you have documented is very detailed and of an excellent standard.		25	21
4. Practical Application Skills Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.			
70-84%: An advanced application of a range of established methods, materials, tools and/or techniques. The context of the application is well considered, and insightful. Consistent, accurate and logical application of theory to practice, making well-developed links between the two. Can identify problems and propose excellent, creative 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? Your report evidences a considered approach to this systems engineering application. You've selected highly appropriate tools and have drawn reference to the reasoning and justifications used to select them.		25	18.3
5. Transferable Skills for Life and Professional Practice Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation.			
85-100%: Can communicate with an exceptionally high level of professionalism, highly suitable for the audience. Work is exceptionally coherent, very fluent and is presented professionally. Can work exceptionally well within a team, showing leadership skills. Demonstrates exceptional 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. You have produced a professionally formatted and clearly written report which addresses the coursework specification concisely yet thoroughly. An excellent piece of work!		15	12.5
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.)		Late Submission Penalties (tick if appropriate)	
		Up to one-week late	
		Over one week late	
		80.1	%