

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: Scott Ling (1810357)			
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)			
50-59%: Engagement with an appropriate range of literature, including sources retrieved independently. Some over-reliance on texts rather than other sources. Referencing may show minor 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. It's good to see that you are using research generally and citations in your text to support your work. You should take a closer look at the referencing conventions to ensure that you are including all the necessary information for online sources which you have referenced. Some of the sources you've cited are suitable and others less so. Try to avoid sites such as Wikipedia as the information you are quoting is not peer reviewed as an academic journal, paper or text book would be.		15	7.8
2. Knowledge and Understanding Skills Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.			
50-59%: Knowledge is reasonably detailed and accurate. A good critical understanding of the well-established concepts and principles and the main methods of enquiry, with minor gaps in the selection of material. 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. I am pleased to see that you have adopted a suitable systems engineering framework within which to carry out your work. The Holistic Requirements Model captures the essence of the Systems Engineering approach. Your work is generally, reasonably well informed and it is clear that you have a good understanding of the main factors and knowledge bases associated with the application.		20	11.8
3. Cognitive and Intellectual Skills Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence			
50-59%: Sound critical evaluation and analysis of concepts. Is selective in the range of evidence used and synthesises rather than describes. Ability to devise arguments that show awareness of different stances, and use evidence convincingly, to support 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. The general approach which you have taken, along with the Pugh matrix are sound and indicate that you have undertaken the project in a systematic way. There are, however, a number of other analytical techniques which you could have employed to improve your work and increase marks. For example, risk could have been evaluated and managed using a relatively straightforward Failure Modes Effects Analysis.		25	13
4. Practical Application Skills Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.			
60-69%: A very good application of a range of established methods, materials, tools and/or techniques. Very good consideration of the context of the application, with perceptive insights. Consistent, accurate and logical application of theory to practice, making appropriate links between the two. Can identify problems and propose appropriate solutions outside the context in which they were first studied. Evidence of some creativity. 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 indicates that you have a reasonable awareness of the limitations and features of the techniques you have applied. This was clear from the report generally and the conclusion in particular.		25	15.8
5. Transferable Skills for Life and Professional Practice Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation.			
60-69%: Can communicate well, confidently and consistently in a suitable medium for the audience. Work is coherent, fluent, well-structured and organised. Can work very well autonomously and/or as part of a team, with very good contribution to group activities. Demonstrates very good skills for employment requiring the exercise of personal responsibility and decision-making, with just occasional minor weakness 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 is structured well and addresses the brief outlined in the specification. Your writing is clear and informative. In some cases, images have been deformed slightly when formatting them (paperwork sign-off process for example). If necessary, redraw such images. The Pugh matrix and the Holistic Requirements model are a little too small (the text). Try to think about the final format when sizing and formatting images.		15	9.75
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	
		58.1	%