VCE Systems Engineering Unit 4

Assessment Rubric: **Unit 4 Outcome 2** (2020 specific)

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| Task Descriptors/ Ass. Criterion | Performance Descriptors | | | | | |
| S/N | Very Low | Low | Medium | High | Very High |
| 1. Ability to describe and evaluate the new and emerging developments in systems engineering processes, products and components. |  | 1-2  Very limited description of new and emerging developments in systems engineering processes, products and components, including very limited discussion of how they work, or their applications. | 3-4  Limited description of new and emerging developments in systems engineering processes, products and components, including brief discussion of how they work, and their applications. | 5-6  Clear description and some evaluation of new and emerging developments in systems engineering processes, products and components, including how they work, and their applications. | 7-8  Detailed description and clear evaluation of new and emerging developments in systems engineering processes, products and components, including how they work, and their applications. | 9-10  Very detailed description and comprehensive evaluation of new and emerging developments in systems engineering processes, products and components, including how they work, and their applications. |
| 2. Explanation of the advantages and disadvantages of the chosen systems engineering process, product or component in relation to social, economic and environmental factors |  | 1-2  Little explanation of advantages and disadvantages of chosen system with reference to social, economic and environmental factors. | 3-4  Limited explanation of advantages and disadvantages of chosen system with reference to social, economic and environmental factors. | 5-6  Satisfactory explanation of advantages and disadvantages of chosen system with reference to social, economic and environmental factors. | 7-8  Detailed explanation of advantages and disadvantages of chosen system with reference to social, economic and environmental factors. | 9-10  Thorough explanation of  advantage and disadvantages of chosen system with reference to social, economic and environmental factors. |
| 3~~. Analysis of the impact and the potential of new and emerging developments.~~ |  | 1-3  ~~Very brief description of the impacts and the potential of the new and emerging developments.~~ | 4-6  ~~Brief description of the impacts and the potential of the new and emerging developments.~~ | 7-9  ~~Appropriate analysis of the impacts and the potential of the new and emerging developments.~~ | 10-12  ~~Detailed analysis of the impacts and the potential of the new and emerging developments.~~ | 13-15  ~~In depth analysis of the impacts and the potential of the new and emerging developments.~~ |
| 4. Presentation and analysis of information about a specific new or emerging systems engineering innovation. |  | 1-2  Very limited reference and presentation of a specific new or emerging systems engineering innovation. Includes partial bibliography. | 3-4  Limited exploration and presentation of a specific new or emerging systems engineering innovation.  Includes basic bibliography. | 5-6  Satisfactory analysis and presentation of a specific new or emerging systems engineering innovation. Includes detailed bibliography. | 7-8  Well-developed analysis and presentation of a specific new or emerging systems engineering innovation. Includes substantial bibliography. | 9-10  Thorough analysis and presentation of a specific new or emerging systems engineering innovation. Includes comprehensive bibliography. |