VCE Systems Engineering: Performance Descriptors

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| **SYSTEMS ENGINEERING**  **SCHOOL-ASSESSED COURSEWORK** | | | | | |
| **Performance Descriptors** | | | | | |
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| ***Unit 4***  ***Outcome 2***  Evaluate a range of new or emerging systems engineering technologies, and analyse the likely impacts of a selected technology. | **DESCRIPTOR: typical performance in each range** | | | | |
| **Very low** | **Low** | **Medium** | **High** | **Very high** |
| Very limited research of new and emerging developments in systems engineering processes, products and components, including a very limited evaluation of how they operate, and their applications. | Limited research of new and emerging developments in systems engineering processes, products and components, including a limited evaluation of how they operate, and their applications. | Satisfactory description of new and emerging developments in systems engineering processes, products and components, including satisfactory evaluation of how they operate, and their applications. | Detailed research of new and emerging developments in systems engineering processes, products and components, including, detailed evaluation of how they operate and their applications. | Very detailed research of new and emerging developments in systems engineering processes, products and components, including comprehensive evaluation of how they operate and their applications. |
| Very limited reference to the reasons for, and the drivers of, the development of new and emerging technologies. | Limited explanation of the reasons for, and the drivers of, the development of new and emerging technologies. | Satisfactory explanation of the reasons for, and the drivers of, the development of new and emerging technologies. | Detailed explanation of the reasons for, and the drivers of, the development of new and emerging technologies. | Thorough explanation of the reasons for, and the drivers of, the development of new and emerging technologies. |
| Very brief analysis of the potential benefits of the new and emerging development. | Brief analysis of the potential benefits of the new and emerging developments. | Appropriate analysis of the potential benefits of the new and emerging developments. | Detailed analysis of the potential benefits of the new and emerging developments. | In-depth analysis of the potential benefits of the new and emerging developments. |
| Very brief description of the possible adverse impacts of the new and emerging developments. | Brief description of the possible adverse impacts of the new and emerging developments. | Appropriate description of the possible adverse impacts of the new and emerging developments. | Detailed analysis of the possible adverse impacts of the new and emerging developments. | In-depth analysis of the possible adverse impacts of the new and emerging developments. |
| Very limited analysis of the likely impacts and the potential of a specific new or emerging systems engineering innovation. | Limited analysis of the likely impacts and the potential of a specific new or emerging systems engineering innovation. | Satisfactory analysis of the likely impacts and the potential of a specific new or emerging systems engineering innovation. | Well-developed analysis of the likely impacts and the potential of a specific new or emerging systems engineering innovation | Thorough analysis of the likely impacts and the potential of a specific new or emerging systems engineering innovation. |

KEY to marking scale based on the Outcome contributing 50 marks

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| Very Low 0–10 | Low 11–20 | Medium 21–30 | High 31–40 | Very High 41–50 |