**Software Development Lifecycles (Advocate: Shujaat Shah)**

**P1 Describe two iterative and two sequential software lifecycle models.**

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| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**P2 Explain how risk is managed in the Spiral lifecycle model.**

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**P3 Explain the purpose of a feasibility report.**

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**P4 Describe how technical solutions can be compared.**

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**P5 Undertake a software investigation to meet a business need.**

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**P6 Use appropriate software analysis tools/techniques to carry out a software investigation and create supporting documentation.**

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**P7 Explain how user and software requirements have been addressed.**

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**M1 Describe, with an example, why a particular lifecycle model is selected for a development environment.**

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**M2 Discuss the components of a feasibility report.**

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**M3 Analyse how software requirements can be traced throughout the software lifecycle.**

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**M4 Discuss two approaches to improving software quality.**

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**M5 Suggest two software behavioural specification methods and illustrate their use with an example.**

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**M6 Differentiate between a finite state machine (FSM) and an extended- FSM, providing an application for both.**

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**D1 Assess the merits of applying the Waterfall lifecycle model to a large software development project.**

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**D2 Assess the impact of different feasibility criteria on a software investigation.**

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**D3 Critically evaluate how the use of the function design paradigm in the software development lifecycle can improve software quality.**

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**D4 Present justifications of how data driven software can improve the reliability and effectiveness of software.**

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