

9628-01 Level 4 Diploma in Software Development Methodologies (for the Level 4 Software Developer Apprenticeship)

9628-401 Software Development Methodologies

Sample question paper answer sheet

Pass mark 23/34 (70%)

Question	Answer Key	Test specification reference
1	А	1.1a Describe the analysis stage
2	В	1.1b Describe the software design and prototyping stage
3	В	1.1b Describe the software design and prototyping stage
4	С	1c Describe how to select appropriate development languages and tools
5	D	1.1d Describe software testing methodologies
6	D	1.1d Describe software testing methodologies
7	С	1.1e Describe the deployment stage
8	D	1.1f Describe the maintenance stage
9	D	1.1f Describe the maintenance stage
10	С	1.2 Explain the importance of the following in a procedural (linear)/staged (iterative) software development lifecycle
11	D	1.2 Explain the importance of the following in a procedural (linear)/staged (iterative) software development lifecycle
12	A	 2.1a Describe the agile software development methodology Structure and stages Principles and rationale
13	D	2.1b Describe the waterfall software development methodology
14	А	2.1c Describe the advantages and disadvantages of agile as a software development methodology
15	В	2.1d Describe the advantages and disadvantages of waterfall as a software development methodology
16	В	2.1e Explain the suitability of software development methodologies for different types of project

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17	С	2.1f Describe consequences of poor selection of development methodologies
18	В	3.1a Describe typical contractual constraints to software development (eg time, cost, quality, compliance, regulatory, innovation criteria) and how they are mitigated
19	А	3.1b Describe typical configuration management and change control constraints to software development and how they are mitigated
20	D	3.1c Describe typical business constraints that might lead to alternative practices for software development (e.g. Agile over waterfall, rapid prototyping, modularity over performance)
21	С	3.2a Describe how to identify potential risks and flag them within project management team
22	В	3.2b Describe how project managers identify the additional technical resource for a project
23	А	3.2c Describe how to support effective cost estimation within the project management team
24	А	3.2d Describe how to accurately forecast effort (time) required within the project management team
25	С	4.1a Describe the roles and responsibilities within the software development and implementation lifecycle • Business analysts
26	В	4.1a Describe the roles and responsibilities within the software development and implementation lifecycle Business analysts
27	D	 4.1b Describe the roles and responsibilities within the software development and implementation lifecycle Designers Design a software model that fulfil the specifications
28	А	4.1c Describe the roles and responsibilities within the software development and implementation lifecycle • Developers
29	А	4.1d Describe the roles and responsibilities within the software development and implementation lifecycle • Testers
30	С	4.1d Describe the roles and responsibilities within the software development and implementation lifecycle • Testers
31	В	 4.1e Describe the roles and responsibilities within the software development and implementation lifecycle Technical architects
32	С	 4.2a Describe how key roles and responsibilities can be used to form teams Project manager Business analysts Designers Developers Testers Technical architects

33	А	 4.2b Describe factors that influence effective team working and their importance including internal and external factors: Communication Composition Interpersonal relationships Maturity of the team Skill set Leadership style Resources Climate and environment of the organisation Sponsor
34	С	 4.2b Describe factors that influence effective team working and their importance including internal and external factors: Communication Composition Interpersonal relationships Maturity of the team Skill set Leadership style Resources Climate and environment of the organisation Sponsor