**Formative Assessment**

**Agile Project Management (114059)**

*Hello and welcome to the assessment. Here you’ll prove to the world just how much you know and understand about what you’ve just learnt in the learner guides. This is an important part of your time at Umuzi because once this is done, you’ll be certified! So please, take this time to learn everything you can! Take a look at some pointers below with regard to answering the questions…*

* *Be specific*
* *Write professionally - no shorthand!*
* *Your answers must be original and come from your brain and your brain only.*
* *No copy/paste tricks! Our markers have seen it all and will know if you’re taking shortcuts.*
* *Remember, sloppy or poor work will be sent back to you to do again, so do it properly the first time and you’ll be done in no time.*
* *Ask for help at any time. Ask your friends, a manager, anybody!!*
* *Don’t skip any questions! You must do them all!*
* *You’ll see two boxes after each question - one for your answer and one for the marker’s comments. DO NOT delete the marker’s comments if you are required to resubmit your work after the first attempt. Should you have to do it again you will see a new box* ***under*** *the marker’s comments, so fill that one out in* ***BLUE****. Remember!! It’s not the end of the world if you have to resubmit. You’re here to learn, so don’t beat yourself up if you don’t get it right on the first go. Obviously, try your best to get it right on the first attempt, but if not, you have another chance to do it properly!*

*Ok, and that’s that! Time to get to it! Good luck, have fun and enjoy! :)*

**Enter your name and surname below**

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| **Luvo Spofana** |

1. **List 4 of the 12 principles of Agile [4 Marks]**

**Your answer below**

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| * Our highest priority is to satisfy the customer through early and continuous delivery of valuable software * Welcome changing requirements, even late in development. Agile processes harness change for the customer’s competitive advantage. * Deliver working software frequently, from a couple of months, with a preference to the shorter timescale. * Businesspeople and developers must work together daily throughout the project. |

**Marker’s Comments**

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**2. What is cost-benefit analysis? What is its purpose? [4 Marks](4 SO:1 AC:1-2)**

**Your answer below**

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| Cost-benefit analysis is a technique used to assess the monetary social costs and benefits of a project over a given period of time.  It serves as an economic technique for project appraisal and can include social/environmental impacts along will private economic costs and benefits to incorporates externalities into the decision process. |

**Marker’s Comments**

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**3. Explain three benefits of estimating time accurately [4 Marks](4 SO:2 AC:1-2)**

**Your answer below**

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| Estimating time accurately means that you will know how long a project is going to take you, and you will be able to get commitment from the people who need to sign the project off.  Accurately estimating time increases the chances of the project being judged by the client as a success because it shall be delivered on time, and it also allows you to negotiate sensible budgets and achievable deadlines. |

**Marker’s Comments**

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**4. Describe the four steps you should consider when you are estimating time needed for a project [6 Marks](6 SO:2 AC:1-2)**

**Your answer below**

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| Understand what is required – identify all the work that needs to be done within the project, the technical requirements, the technology and all resources that will be required. Allocate time for learning should it be needed.  Order these activities – List the identified activities in the order in which they need to occur and note any important deadlines.  Decide who you need to involve – for accurate estimates, brainstorm them with a group, preferably the people who will be doing the work because they are likely to have experience to refer to.  Make your estimates – Make the estimates and be sure to estimate time that will be needed for each task instead of estimating how long the whole project will take, specify the level of detail for each task and list all the assumptions, exclusions and constraints that are relevant. |

**Marker’s Comments**

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**5. Explain why the effort cost is generally the most expensive part of a development project [4 Marks](4 SO:3 AC:1-2)**

**Your answer below**

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| Effort costs are not just the salaries of the software engineers who are involved in the project. The cost of providing heating and lighting office space, along with the costs of support staff such as accountants, administrators, system managers, cleaners and technicians, also the cost of networking and communications, and the costs of employee benefits such as pensions and health insurance, all form part of the total effort cost, which is why it is generally the most expensive part of a development project. |

**Marker’s Comments**

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**6. Explain why increasing the number of staff working on a project may also increase the total amount of effort required [3 Marks](3 SO:3 AC:3)**

**Your answer below**

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| People working on a project spend a lot of time communicating and defining interfaces between the parts of the system developed by other people, therefore increasing staff members means increasing the number of people to be communicated to and the amount of time communication will take. |

**Marker’s Comments**

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**7. How does late delivery affect your reputation? [4 Marks](4 SO:4 AC:1-2)**

**Your answer below**

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| How your customer rates you weighs a lot and if you deliver late and the customer is not happy about that, then delivering late might negatively affect your reputation.  But if you delivered late, and you were honest and timely with letting your client know about the setbacks and delays, and the client is happy with the end product, then that might have a positive effect on your reputation because the client will speak highly of your work and recommend you to other people. |

**Marker’s Comments**

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