**Formative Assessment**

**Ethics and professionalism in the computer industry in South Africa (114055)**

*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.** **Describe professionalism for the computer industry in South Africa [4 Marks](4 SO:1 AC:1-3)**

**Your answer below**

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| Ethics and professionalism concern one’s conduct of behavior when executing/carrying out work that is professional. The behavior of professionals, which includes issues like discrimination, loyalty and integrity is governed by a ‘code of conduct’, while the ways in which professionals are expected to exercise their responsibilities and carry their duties is governed by a ‘code of practice’. |

**Marker’s Comments**

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**2.** **List four professional bodies in the South African IT industry [4 Marks](4 SO:1 AC:2-3)**

**Your answer below**

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| * **Institute of Information Technology Professionals South Africa (IITPSA)** * **Institute of Chartered IT Professionals** * **Interactive Entertainment South Africa (IESA)** * **Information Systems Audit and Control Association** |

**Marker’s Comments**

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**3. List and briefly describe three codes of practice that govern IT professionals [6 Marks](6 SO:2 AC:1-2)**

**Your answer below**

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| 1. Act always with professionalism and integrity – Accurately present yourself and your skills. Be in compliance with legal agreements and legislation 2. Act with complete loyalty towards a client when entrusted with confidential information – Unless legislation requires you to, or your relevant authority has granted permission, do not disclose nor authorize for confidential information to be disclosed to a third party. Information should be protected with the relevant and necessary information security levels and systems. 3. Act with impartiality when purporting to give independent advice and must disclose any relevant interests – One should be accurate and honest about their competence. Involve colleagues and relevant stakeholders or organizations in order to make informed decisions. |

**Marker’s Comments**

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**4. Briefly describe six steps of an SSL/TSL handshake taking place between a client and a server [6 Marks](6 SO:3 AC:1-3)**

**Your answer below**

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| **Client Hello –** The client sends the information that a server requires to start an HTTPS connection.  **Server Hello –** The server then responds with the selected configuration from the Client Hello along with the necessary information to proceed with the handshake.  **Server Key Exchange Message –** The server sends a message which contains the details required for the client to generate the pre-master secret.  **Certificate request –** This step comes into place in a two-way SSL, and this is where the server sends a certificate request from the client with the certificate signature algorithms, certificate type and the certificate authorities that the server supports.  **Client Certificate –** The client then presents its certificate chain to the server, and the certificate must be appropriated for the negotiated cipher suite’s key exchange algorithm and any extensions that were negotiated.  **Client Key Exchange Message –** This message is sent after the client receives the ‘ServerHelloDone’ message in a one-way SSL. In a two-way SSL, this message is sent by the client and is followed by the Client Certificate message. |

**Marker’s Comments**

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**5. What is the PoPI Act and what is its purpose? [4 Marks](4 SO:2 AC:1-2)**

**Your answer below**

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| The Protection of Personal Information is an act that has been passed by the South African Parliament to protect consumer’s data and privacy. The act’s purpose is to protect people’s personal information, that way, protecting them from harm. |

**Marker’s Comments**

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**6. Describe 2 of the ethical principles for using customer/user data. [4 Marks]**

**Your answer below**

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| **Privacy –** It is important to ensure that personal and confidential data remains private and isn’t publicly available.  **Transparency –** It is important to be transparent about how you plan to collect, store, and use the clients’/data subjects’ personal information. Clients have the right to know that information**.** |

**Marker’s Comments**

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**7. Explain the importance of collecting unbiased data. [2 Marks]**

**Your answer below**

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| Unbiased data samples do not discriminate, and they yield a lot more accurate results and information. |

**Marker’s Comments**

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