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| Pearson  Higher Nationals in | | | |
| Computing | | | |
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| Unit 5: | | Information System Security Management | | |
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| Assignment Brief Number: | | | 1 |
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Higher National Certificate/Diploma in

Computing

Assignment Brief

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| Student Name/ID Number |  |
| **Unit Number and Title** | **5: Information System Security Management(F/615/1661)** |
| Academic Year |  |
| Unit Tutor |  |
| **Assignment Title** | **ISMS for Garkeens supermarket chain** |
| **Issue Date** |  |
| Submission Date |  |
| IV Name & Date |  |

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| **Submission Format** |
| The submission is in the form of a word processed document using single spacing and font size 12. You are required to make use of headings, paragraphs and subsections as appropriate, and all work must be supported with research and referenced using the Harvard referencing system. Please also provide a bibliography using the Harvard referencing system. Your document should contain the following subsections.  You are required to make use of headings, paragraphs, subsections and illustrations as appropriate, and all work must be supported with research and referenced using the Harvard referencing system. |

**Unit Learning Outcomes**

LO1. Explore the basic principles of information security management.

LO2. Critically assess how an organisation can implement and maintain an Information

Security Management System (ISMS).

LO3. Appraise an ISMS and describe any weaknesses it may contain.

LO4. Examine the strengths and weaknesses of implementing ISMS standards.

**Assignment Brief and Guidance**

**GARKEEN SUPERMARKET**

Garkeens is a Leading Supermarket chain in in Sri Lanka that has marked its position in the industry in a very short period of time. They started as a small scale supermarket and reached heights in no time. Garkeens rapid growth has been well identified with their intense use of ICT in both the operations and management levels. The information they derive from operational layers are highly made use for critical decision making. Thy have been very successful in making tactical and strategic decisions thanks to the large data warehouse that filters operational data and other data sources to bring to light the critical analyses and recommendations.

Their integrity and confidence in their ICT system has been marred time to time owing to frequent problems that they did not likely have control throughout the past 7 years. The problems have been briefly outlined below.

* Frequent virus attacks in branches; some infections lead to ceasing of the information systems for the entirely day.
* Competitors wanted to block the email promotion campaigns to the customers and during their disruption that lasted for two months Garkeens couldn’t do anything.
* The customer data were stolen and used by some other organizations for their own campaigns. This had little effect on Garkeen. But the customers got disappointed and insisted on taking actions against the misuse of data. Garkeens was helpless.
* The latest attack is that stealing of their MIS data by a newly started supermarket chain. They could explore and extract the marketing strategies unique to Garkeens. This was a heavy blow to the business.

Eventually they decided to implement an ISMS in the Garkeens. That is where they seek your service to develop good ISMS with ISO certification and related security management standards. Being a certified information security manager and ISO 27001 Provisional Auditor you are required to plan an ISMS to implement, monitor, control and improve the security of Garkeens supermarket chain.

**Tasks :**

**Prepare the following**

1. An ISMS planning document on the basis of ISO 27001:2013 framework controls considering the existing weaknesses of the current security system of the given supermarket chain. The recommended word limit is 1500–2000 words, although you will not be penalised for exceeding the total word limit. ***(LO1,LO3,LO4)***
2. Documentation for planned ISMS implementation procedures. The recommended word limit is 1500–2000 words, although you will not be penalised for exceeding the total word limit.***(LO2)***
3. Documentation for Monitoring and improving of the implemented ISMS. The recommended word limit is 750–1000 words, although you will not be penalised for exceeding the total word limit. ***(LO2)***
4. Advantages and disadvantages of ISO 27001:2013 certification for the supermarket chain.***(LO4)***

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| Learning Outcomes and Assessment Criteria | | |
| Pass | Merit | Distinction |
| **Task 1.**  **LO1.**  ISMS definition with principles/ risk identification , evaluation and prioritising with the help of likelihood and impact matrix,  **LO3.** Comparatively discuss the weaknesses of present information security system and planed ISMS.  **LO4.** Familiarity with standards such as ISO 27001:2013 and relative standards to develop an ISMS mapping to a specific organization. | | |
| **P1.** Define the ISMS  **P2.** ISMS principles  **P3.** Matrix or other technique to identify risks and discuss advantages of the tool used for identifying likelihood and impact to prioritizing.  **P4.** Plan a security policy only for the identified risks | **M1.** Discuss the weaknesses of present security system in the organization.  **M2.** Explain how to overcome the existing weaknesses.  **M3.** Advantages of ISMS standards | **D1**. Entire ISMS must be planned according to the ISO 27001:2013  **D2**. Use relevant legislation within the ISO framework |
| **Task 2.**  **LO2.**  Implementation of the planed ISMS | | |
| **P1.** Forming security teams, Information access method with the present technology.  **P2.** Plan andconduct awareness programs | **M1.** Mapping the findings to the given organization | **D1**. How ISO 27001:2013 supports the implementation procedures |
| **Task 3.**  **LO2.**  Monitoring and improvement of the planed ISMS | | |
| **P1.** Discussion of monitoring procedures  **P2.** Tools for monitoring  **P3.** Security improvement procedures | **M1.** Evaluation of the tools and techniques for monitoring and maintenance | **D1**. How ISO Standards support the security monitoring and improvement  with controls they provide. |
| **Task 4.**  **LO4.**  Advantages and disadvantages of Certification of standard bodies | | |
| **P1.** Simply discuss the pros and cons. | **M1.** Detailed discussion on pros and cons. | **D1**. Discussion with comparing and contrasting of the controls and procedures of different standards. |