

Pearson Higher Nationals in

Computing

ASSESSMENT

Unit: 5 Security

Brief Number:

1 & 2



Higher National Certificate/Diploma in Computing

Assessment Brief

Student Name/ID Number	
Unit Number and Title	5: Security
Academic Year	
Unit Tutor	
Assignment Title	Security Presentation and Guidebook
Issue Date	
Submission Date	
IV Name & Date	

Submission Format

The submission is in the form of two documents/files:

1. A ten-minute Microsoft® PowerPoint® style presentation to be presented to your colleagues. The presentation can include links to performance data with additional speaker notes and a bibliography using the Harvard referencing system. The presentation slides for the findings should be submitted with speaker notes as one copy.
2. An extended guidebook **or** detailed report that provides more thorough, evaluated or critically reviewed technical information on all of the topics covered in the presentation.

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 Assess risks to IT security

LO2 Describe IT security solutions

Assignment Brief and Guidance

Ascom is a large finance company in Sri Lanka which is having island wide distributed branch network system which has connected with their external stakeholders as well, but most of the staff are not having enough IT and IT Security knowledge to prevent from the newest security threats. Nowadays there are so many security risks available both physically and logically and they must save their sensitive information from all the security issues.

Assume you are an IT security consultant and they have outsource you to create an attractive presentation to help their staff members on the tools and techniques associated with identifying and assessing IT security risks together with their organisational policies to protect their critical information and physical equipment.

In addition to your presentation you should also provide a detailed report containing a technical review of the topics covered in the presentation.

Your presentation should include:

1. Security legislation, technology solutions and the management associated with operating effective IT security procedures for the above organisation.
2. A review of different security technologies supported with the tools and software used to develop effective IT security practice for the above organisation.

Your detailed report should include a summary of your presentation as well as additional, evaluated or critically reviewed technical notes on all of the expected topics.

Learning Outcomes and Assessment Criteria		
Pass	Merit	Distinction
L01 Assess risks to IT security		L01 & 2 D1 Investigate how a 'trusted network' may be part of an IT security solution.
P1 Identify types of security risks to organisations. P2 Describe organisational security procedures.	M1 Propose a method to assess and treat IT security risks.	
L02 Describe IT security solutions		
P3 Identify the potential impact to IT security of incorrect configuration of firewall policies and third-party VPNs. P4 Show, using an example for each, how implementing a DMZ, static IP and NAT in a network can improve Network Security.	M2 Discuss three benefits to implement network monitoring systems with supporting reasons.	

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Submission Format
<p>Part 1: The submission is in the form of an individual written report. This should be written in a concise, formal business style using single spacing and font size 12. 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. Please also provide a bibliography using the Harvard referencing system. The recommended word limit is 2,000–2,500 words, although you will not be penalised for exceeding the total word limit.</p> <p>Part 2: The submission is in the form of a policy document (please see details in Part 1 above).</p> <p>Part 3: The submission is in the form of an individual written reflection. This should be written in a concise, formal business style 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. The recommended word limit is 250–500 words, although you will not be penalised for exceeding the total word limit.</p>

Unit Learning Outcomes
L03 Review mechanisms to control organisational IT security L04 Manage organisational security
Assignment Brief and Guidance

UniCare is one of Sri Lanka's largest providers of life insurance solutions in the country. Anchored by a team of experienced and dynamic professionals, a strong capital base and reinsurance partnerships with highly rated global reinsurers, UniCare offers a wide range of tailor-made insurance products and services that are of international standards.

Their vision is to be the most sought after provider of insurance solutions. In order to live their vision they constantly review their product portfolio to meet the changing needs of their customers.

The UniCare brand is positioned on the promise of "trust". They strive to deliver this promise by being transparent in their dealings with their life insurance customers, and being respectful in their dealings with all stakeholders.

Within their branch network there are island wide five branches available and there is a requirement of increase the number of branches in different areas due to increment of the demand of the customers. Therefore there should be a higher security consideration than the current situation because the expandability of the network exposed more security threats such as logical and physical security issues with the possible natural disasters.

The Security consultancy you work for has asked you, in your capacity as an IT Security Specialist, to propose a Security Policy for the organization.

Part 1

In preparation for this task you will prepare a report considering:

1. The security risks faced by the company with the possible security threats for the organisation in future
2. How data protection regulations and ISO risk management standards apply to IT security.
3. The potential impact that an IT security audit might have on the security of the organisation.
4. The responsibilities of employees and stakeholders in relation to security.

Part 2

Following your report, you will now design and implement a security policy, while considering the components to be included and a justification for their inclusion.

Part 3

In addition to your security policy, you will evaluate the proposed tools used within the policy and how they align with IT security.

Learning Outcomes and Assessment Criteria		
Pass	Merit	Distinction
L03 Review mechanisms to control organisational IT security		D2 Consider how IT security can be aligned with organisational policy, detailing the security impact of any misalignment.
P5 Discuss risk assessment procedures. P6 Explain data protection processes and regulations as applicable to an organisation.	M3 Summarise the ISO 31000 risk management methodology and its application in IT security. M4 Discuss possible impacts to organisational security resulting from an IT security audit.	
L04 Manage organisational security		D3 Evaluate the suitability of the tools used in an organisational policy.
P7 Design and implement a security policy for an organisation. P8 List the main components of an organisational disaster recovery plan, justifying the reasons for inclusion.	M5 Discuss the roles of stakeholders in the organisation to implement security audit recommendations.	