

	Unit 4 Data Analytics – 2024			
	Outcome 2 Cybersecurity: da	Outcome 2 Cybersecurity: data and information security – Developing a marking scheme – Sample		
Outcome 2			Developing a marking scheme – Marks allocated – 100	
On completion of this unit the student should be able to respond to a teacher-provided case study to investigate the current data and information security strategies of an organisation, examine the threats to the security of data and information, and recommend strategies to improve current practices.			Refer to the key skills or the VCAA performance descriptors v study. Determine the weighting of the marks out of 100 for ea determining weightings for responses consider the time that s	
Key knowledge	Key skills	VCAA Performance descriptors (Very high)	as well as the level of difficulty of each component. Marks she demonstrate a range of levels of performance in their response	
 characteristics of wired, wireless and mobile networks physical and software security controls for preventing unauthorised access to data and information and for minimising the loss of data accessed by authorised and unauthorised users the role of hardware, software and technical protocols in managing, controlling and securing data in information systems the advantages and disadvantages of using network attached storage and cloud computing for storing, communicating and disposing of data and information the importance of data and information to organisations the importance of data and information security strategies to organisations types and causes of accidental, deliberate and events-based threats to the integrity and security of data and information used by organisations characteristics of data that has integrity, including accuracy, authenticity, correctness, reasonableness, relevance and timeliness 	 analyse and discuss the current data and information security strategies used by an organisation identify and evaluate threats to the security of data and information 	 Comprehensive analysis and discussion of the current data and information security strategies used by an organisation. Comprehensive identification and evaluation of the threats to the security of data and information. 	Students are to analyse and discuss the current data and info organisation. Possible number of marks – 40 marks Students are to identify and evaluate the threats to the securi Possible number of marks – 20 marks	
 the impact of diminished data integrity in information systems 				
 criteria for evaluating the effectiveness of data and information security strategies 	 propose and apply criteria to evaluate the effectiveness of current data and information security strategies 	• Comprehensive set of evaluation criteria to measure effectiveness of the current data and information security strategies are proposed and applied.	Students are to propose and apply evaluation criteria that me current data and information security strategies. Possible number of marks – 10 marks	
 key legislation that affects how organisations control the collection, storage, communication and disposal of their data and information: the <i>Health Records Act 2001</i>, the <i>Privacy Act 1988</i> and the <i>Privacy and Data Protection Act 2014</i> ethical issues arising from data and information security practices possible consequences for organisations that fail or violate security measures 	 identify and discuss possible legal and ethical consequences of ineffective data and information security strategies 	 Comprehensive understanding of the relevant legal and ethical consequences of ineffective data and information security strategies. 	Students are to identify and discuss the possible legal and et ineffective data and information security strategies. Possible number of marks – 15 marks	
 strategies for resolving legal and ethical issues between stakeholders arising from information security practices reasons to prepare for disaster and the scope of disaster recovery plans, including backing up, evacuation, restoration and test plans 	 recommend and justify strategies to improve current data and information security practices 	 Comprehensive recommendations are made and justified to improve the current data and information security practices. 	Students are to recommend and justify improvements to the or security practices. Possible number of marks – 15 marks	





ors when developing a marking scheme for the case or each key skill or performance descriptor. When hat students will take to complete each component should be allocated to ensure students can onses.

information security strategies used by the

curity of the organisation's data and information.

measure the effectiveness of the organisation's

l ethical consequences to the organisation for their

he organisation's current data and information