



Unit 4 Software Development – 2024

Outcome 2 Cybersecurity: software security – Template for developing an assessment task – Blank

Outcome 2	· · ·	
	e to respond to a teacher-provided case study to examin aces of ineffective strategies and recommend a risk man	the the current software development security strategies of nagement plan to improve current security practices.
Key knowledge	Key skills	VCAA Performance descriptors (Very high)
 reasons why individuals and organisations develop software, including meeting the goals and objectives of the organisation physical and software security controls used to protect software development practices and to protect software and data, including version control, user authentication, encryption and software updates software auditing and testing strategies to identify and minimise potential risks 	analyse and discuss the current security controls to protect software development practices and to protect software and data	Comprehensive analysis and discussion of the current security controls used to protect software development practices and to protect software and data.
 types of software security and data security vulnerabilities, including data breaches, manin-the-middle attacks and social engineering, and the strategies to protect against these types of web application risks, including cross-site scripting and SQL injections managing risks posed by software acquired from third parties characteristics of data that has integrity, including accuracy, authenticity, correctness, reasonableness, relevance and timeliness the impact of ineffective security strategies on data integrity 	identify and discuss the potential risks to software and data security with the current security strategies	Comprehensive identification and discussion of the potential risks to software and data security.
criteria for evaluating the effectiveness of software development security strategies	propose and apply criteria to evaluate the effectiveness of the current security practices	Comprehensive set of relevant evaluation criteria to measure the effectiveness of the current security practices are proposed and applied.
 key legislation that affects how organisations control the collection, storage (including cloud storage) and communication of data: the Copyright Act 1968, the Health Records Act 2001, the Privacy Act 1988 and the Privacy and Data Protection Act 2014 ethical issues arising during the software development process and the use of a software solution 	identify and discuss the possible legal and ethical consequences to an organisation for ineffective security practices	Comprehensive understanding of the possible legal and ethical consequences of ineffective security practices.
risk management strategies to minimise security vulnerabilities to software development practices.	recommend and justify an effective risk management plan to improve current security practices	Comprehensive recommendations are made and justified to improve the current security practices as part of an effective risk management plan.