ISO27001 - Annex A	Description	Control	NIST Cybersecurity Framework	HECVAT	QLD Health Third Party Security Questionnaire
A.5	Information security policies				Questionnaire
A.5.1	Management direction for information security				
A.5.1.1	Policies for information security	A set of policies for information security must be defined, approved by management, published and communicated to employees and relevant external parties.	ID.GV-1: Organizational cybersecurity policy is established and communicated	QUAL-03, QUAL-04, COMP-03, DOCU- 07, APPL-10, BCPL-01-10, PPPR-01, PPPR-12, PPPR-16	Q5
A.5.1.2	Review of the policies for information security	The policies for information security need to be reviewed at planned intervals, or if significant changes occur, to ensure their continuing suitability, adequacy and effectiveness.			Q5
A.6.1	Organization of information security				
	Internal organization	All information convicts responsibilities need to be defined and allocated	ID AAA C. C. bassacusits value and seen annihilities for the antise worldown and		021
A.6.1.1	Information security roles and responsibilities	All information security responsibilities need to be defined and allocated.	ID.AM-6: Cybersecurity roles and responsibilities for the entire workforce and third-party stakeholders (e.g., suppliers, customers, partners) are established ID.GV-2: Cybersecurity roles and responsibilities are coordinated and aligned with internal roles and external partners PR.AT-2: Privileged users understand their roles and responsibilities PR.AT-3: Privileged users understand their roles and responsibilities PR.AT-4: Senior executives understand their roles and responsibilities PR.AT-5: Physical and cybersecurity personnel understand their roles and responsibilities DE.DP-1: Roles and responsibilities DE.DP-1: Roles and responsibilities Rocountability.		Q31
			needed		
A.6.1.2	Segregation of duties	Conflicting duties and areas of responsibility must be segregated in order to reduce the opportunities for unauthorised or unintentional modification or misuse of any of the organisation's assets.	PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties	PPPR-15	Q26, Q27, Q31, Q49, Q53, Q54, Q61
A.6.1.3	Contact with authorities	Appropriate contacts with relevant authorities must be maintained.	RS.CO-2: Incidents are reported consistent with established criteria		Q21, Q22, Q23, Q24
A.6.1.4	Contact with special interest groups	Appropriate contacts with special interest groups or other specialist security forums and professional associations should be maintained.	ID.RA-2: Cyber threat intelligence is received from information sharing forums and sources RS.CO-5: Voluntary information sharing occurs with external stakeholders to achieve broader cybersecurity situational awareness RC.CO-1: Public relations are managed	WDL 05 07	
A.6.1.5	Information security in project management	Information security should be addressed in project management, regardless of the type of project.	ID.RA-2: Cyber threat intelligence is received from information sharing forums and sources SS.CO-5: Voluntary information sharing occurs with external stakeholders to achieve broader cybersecurity situational awareness	HIPA-05-07	
A.6.2	Mobile devices and teleworking				
A.6.2.1 A.6.2.2	Mobile device policy  Teleworking	A policy and supporting security measures should be adopted to manage the risks introduced by using mobile devices.  A policy and supporting security measures should be implemented to	PR.AC-3: Remote access is managed PR.AC-3: Remote access is managed		
A.U.Z.Z	reieworking	protect information accessed, processed or stored at teleworking sites.	FN.AC-3. Nelliote access is illaliaged		
A.7	Human resource security				
A.7.1	Prior to employment				
A.7.1.1 A.7.1.2	Screening  Terms and conditions of employment	Background verification checks on all candidates for employment should be carried out in accordance with the relevant laws, regulations and ethics, and should be proportional to the business requirements, the classification of the information to be accessed and the perceived risks. The contractual agreements with employees and contractors should state	PR.AC-6: Identities are proofed and bound to credentials and asserted in interactions PR.IP-11: Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening) PR.IP-11: Cybersecurity is included in human resources practices (e.g.,	DOCU-08, PPPR-10, PPPR-11	Q18, Q34, Q37, Q49, Q58, Q60, Q62
71.7.11	remain conditions of employment	their and the organisation's responsibilities for information security.	deprovisioning, personnel screening)		
A.7.2	During employment				
A.7.2.1	Management responsibilities	Management should require all employees and contractors apply information security in accordance with the policies and procedures of the organisation.	ID.GV-2: Cybersecurity roles and responsibilities are coordinated and aligned with internal roles and external partners are suppliers, customers, partners) understand their roles and responsibilities PR.IP-11: Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening)		Q5, Q7, Q60, Q61, Q62
A.7.2.2	Information security awareness, education, and training	All employees of the organisation and, where relevant, contractors should receive appropriate awareness education and training and regular updates in organisational policies and procedures, as relevant for their job function.	PR.AT-1: All users are informed and trained PR.AT-2: Privileged users understand their roles and responsibilities PR.AT-3: Privileged users understand their roles and responsibilities PR.AT-4: Senior executives understand their roles and responsibilities PR.AT-4: Senior executives understand their roles and responsibilities PR.AT-5: Physical and cybersecurity personnel understand their roles and responsibilities PR.IP-11: Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening) DE.DP-1: Roles and responsibilities for detection are well defined to ensure accountability RS.CO-1: Personnel know their roles and order of operations when a response is needed	PPPR-13, PPPR-14	Q7

4 7 2 2					
A.7.2.3	Disciplinary process	There should be a formal and communicated disciplinary process in place to take action against employees who have committed an information security breach.	PR.IP-11: Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening)		Q18
A.7.3	Termination and change of employment				
A.7.3.1	Termination or change of employment responsibilities	Information security responsibilities and duties that remain valid after termination or change of employment should be defined, communicated to the employee or contractor and enforced.	PR.IP-11: Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening)		Q31, Q35
A.8	Asset management				
A.8.1	Responsibilities for assets				
A.8.1.1	Inventory of assets	Assets associated with information and information processing facilities should be identified and an inventory of thes assets should be drawn up and maintained.	ID.AM-1: Physical devices and systems within the organization are inventoried ID.AM-2: Software platforms and applications within the organization are inventoried		Q55
A.8.1.2	Ownership of assets	Assets maintained in the inventory should be owned.	ID.AM-1: Physical devices and systems within the organization are inventoried ID.AM-2: Software platforms and applications within the organization are inventoried		Q55
A.8.1.3	Acceptable use of assets	Rules for the acceptable use of information and of assets associated with information and information processing facilities should be identified, documented and implemented.			Q55
A.8.1.4	Return of assets	All employees and external party users should return any organisational assets in their possession upon termination of their employment, contract or agreement.	PR.IP-11: Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening)		Q55
A.8.2	Information classification				
A.8.2.1	Classification of information	Information should be classified in terms of legal requirements, value, criticality and sensitivity to unauthorised disclosure or modification.	ID.AM-5: Resources (e.g., hardware, devices, data, time, personnel, and software are prioritized based on their classification, criticality, and business value PR.PT-2: Removable media is protected and its use restricted according to policy	)	Q55
A.8.2.2	Labeling of information	An appropriate set of procedures for information labelling should be developed and implemented in accordance with the information classification scheme adopted by the organisation.	PR.PT-2: Removable media is protected and its use restricted according to policy		
A.8.2.3	Handling of assets	Procedures for handling assets should be developed and implemented in accordance with the information classification scheme adopted by the organisation.	PR.DS-1: Data-at-rest is protected PR.DS-2: Data-in-transit is protected PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy		Q42, Q43, Q44, Q45, Q46
A.8.3	Media handling				
A.8.3.1	Management of removable media	Procedures should be implemented for the management of removable	PR.DS-3: Assets are formally managed throughout removal, transfers, and	DATA-19	
A.6.5.1	Management of removable media			DATA-19	
		media in accordance with the classification scheme adopted by the organisation.	disposition PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy		
A.8.3.2	Disposal of media		PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition		
A.8.3.2 A.8.3.3	Disposal of media  Physical media transfer	organisation.  Media should be disposed of securely when no longer required, using	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and		
A.8.3.3	Physical media transfer	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition		
A.8.3.3	Physical media transfer  Access control	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition		
A.8.3.3 A.9 A.9.1	Physical media transfer  Access control  Business requirements of access control	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised access, misuse or corruption during transportation.	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition	ARDI OL ARRI OZ ARRI OD	021
A.8.3.3	Physical media transfer  Access control	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised access, misuse or corruption during transportation.  An access control policy should be established, documented and reviewed	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition	APPL-01, APPL-02, APPL-09	Q31
A.8.3.3 A.9. A.9.1.1 A.9.1.1	Physical media transfer  Access control  Business requirements of access control  Access control policy  Access to networks and network services	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised access, misuse or corruption during transportation.	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition	APPL-09	Q31 Q31
A.9. A.9. A.9.1.	Physical media transfer  Access control  Business requirements of access control  Access control policy	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised access, misuse or corruption during transportation.  An access control policy should be established, documented and reviewed based on business and information security requirements.  Users should only be provided with access to the network and network	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.D5-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.D5-3: Assets are formally managed throughout removal, transfers, and disposition PR.PT-2: Removable media is protected and its use restricted according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties PR.PT-3: The principle of least functionality is incorporated by configuring system	APPL-09	
A.8.3.3 A.9. A.9.1.1 A.9.1.1	Physical media transfer  Access control  Business requirements of access control  Access control policy  Access to networks and network services	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised access, misuse or corruption during transportation.  An access control policy should be established, documented and reviewed based on business and information security requirements.  Users should only be provided with access to the network and network	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.D5-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.D5-3: Assets are formally managed throughout removal, transfers, and disposition PR.PT-2: Removable media is protected and its use restricted according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties PR.PT-3: The principle of least functionality is incorporated by configuring system	APPL-09	
A.8.3.3  A.9. A.9.1. A.9.1.1 A.9.1.2	Physical media transfer  Access control  Business requirements of access control  Access control policy  Access to networks and network services  User access management	organisation.  Media should be disposed of securely when no longer required, using formal procedures.  Media containing information needs to be protected against unauthorised access, misuse or corruption during transportation.  An access control policy should be established, documented and reviewed based on business and information security requirements.  Users should only be provided with access to the network and network services they have been specifically authorised to use.  A formal user registration and deregistration process should be	PR.IP-6: Data is destroyed according to policy PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.IP-6: Data is destroyed according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.PT-2: Removable media is protected and its use restricted according to policy PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition PR.PT-2: Removable media is protected and its use restricted according to policy PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties PR.PT-3: The principle of least functionality is incorporated by configuring system to provide only essential capabilities  PR.AC-1: Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes PR.AC-6: Identities are proofed and bound to credentials and asserted in interactions  PR.AC-7: Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g., individuals'	APPL-09	Q31 Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60,

A.9.2.4	Management of secret authentication information of users	The allocation of secret authentication information should be controlled through a formal management process.	PR.AC-1: Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes PR.AC-7: Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g., individuals' security and privacy risks and other organizational risks)	AAAI-14	Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q70
A.9.2.5	Review of user access rights	Asset owners should review users' access rights at regular intervals.			Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q71
A.9.2.6	Removal or adjustment of access rights	The access rights of all employees and external party users to information and information processing facilities should be removed upon termination of their employment, contract or agreement, or adjusted upon change	PR.AC-1: Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes		Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q72
A.9.3	User responsibilities				
A.9.3.1	Use of secret authentication information	Users should be required to follow the organisation's practices in the use of secret authentication information.	PR.AC-1: Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes PR.AC-7: Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g., individuals' security and privacy risks and other organizational risks)		Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q72
A.9.4	System and application access control				
A.9.4.1	Information access restrictions	Access to information and application system functions should be restricted in accordance with the access control policy.	PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties		Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q72
A.9.4.2	Secure log-on procedures	Where required by the access control policy, access to the systems and applications should be controlled by a secure log-on procedure.	PR.AC-1: Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes PR.AC-7: Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g., individuals' security and privacy risks and other organizational risks)		Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q72
A.9.4.3	Password management system	Password management systems should be interactive and should ensure quality passwords.	PR.AC-1: Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes PR.AC-7: Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g., individuals' security and privacy risks and other organizational risks)	HIPA-08, HIPA-09	Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q73
A.9.4.4	Use of privileged utility programs	The use of utility programs that might be capable of overriding system and application controls should be restricted and tightly controlled.	PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties		Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q74
A.9.4.5	Access control to program source code	Access to program source code should be restricted.	PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties		Q19, Q26, Q27, Q28, Q29, Q30, Q32, Q33, Q34, Q35, Q37, Q47, Q48, Q49, Q50, Q52, Q53, Q54, Q57, Q59, Q60, Q61, Q63, Q64, Q65, Q66, Q75
A.10 A.10.1	Cryptography Cryptographic controls				
A.10.1 A.10.1.1	Policy on the use of cryptographic controls	A policy on the use of cryptographic controls for the protection of		DATA-03, DATA-04	Q38, Q39, Q40, Q41
A.10.1.2	Key management	information should be developed and implemented.  A policy on the use, protection and lifetime of cryptographic keys should be		DATA-18	Q38, Q39, Q40, Q41
A.11	Physical and environmental security	developed and implemented through their whole lifecycle.			
A.11.1	Secure areas				
A.11.1.1	Physical security perimeter	Security perimiters should be defined and used to protect areas that contain either sensitive or critical information or information processing facilities.	PR.AC-2: Physical access to assets is managed and protected DE.CM-2: The physical environment is monitored to detect potential cybersecurity events		
A.11.1.2	Physical entry controls	Secure areas should be protected by the appropriate entry controls to ensure only authorised personnel are allowed access.	PR.AC-2: Physical access to assets is managed and protected PR.MA-1: Maintenance and repair of organizational assets are performed and logged, with approved and controlled tools DE.CM-2: The physical environment is monitored to detect potential cybersecurity events		
A.11.1.3	Securing offices, rooms and facilities	Physical security for offices, rooms and facilities should be designed and applied.	PR.AC-2: Physical access to assets is managed and protected		
A.11.1.4	Protection against external and environmental threats	Physical protection against natural disasters, malicious attacks or accidents should be designed and applied.	ID. BE-5: Resilience requirements to support delivery of critical services are established for all operating states (e.g. under duress/attack, during recovery, normal operations) PR.AC-2: Physical access to assets is managed and protected PR.IP-5: Policy and regulations regarding the physical operating environment for organizational assets are met	DRPL-01, DRPL-02, DRPL-04, DRPL-05, DRPL-07, DRPL-08, DRPL-09, DRPL-11	
A.11.1.5	Working in secure areas	Procedures for working in secure areas should be designed and applied.	PR.AC-2: Physical access to assets is managed and protected		
A.11.1.6	Delivery and loading areas	Access points such as delivery and loading areas and other points where unauthorised persons could enter the premises should be controlled and, if possible, isolated from information processing facilities to avoid unauthorised access.	PR.AC-2: Physical access to assets is managed and protected		
A.11.2	Equipment				

A.11.2.1	Equipment siting and protection	Equipment should be sited and protected to reduce the risks from	PR.AC-2: Physical access to assets is managed and protected		
		environmental threats and hazards, and against unauthorised access.	PR.AT-1: All users are informed and trained PR.IP-5: Policy and regulations regarding the physical operating environment for		
A.11.2.2	Supporting utilities	Equipment should be protected from power failures and other disruptions	organizational assets are met ID.BE-4: Dependencies and critical functions for delivery of critical services are		
A.11.2.2	Supporting utilities	caused by failures in supporting utilities.	established		
		,	PR.IP-5: Policy and regulations regarding the physical operating environment for		
	A.18		organizational assets are met		
A.11.2.3	Cabling security	Power and telecommunications cabling carrying data or supporting information services should be protected from interception, interference or	ID.BE-4: Dependencies and critical functions for delivery of critical services are established		
		damage.	PR.AC-2: Physical access to assets is managed and protected		
			PR.IP-5: Policy and regulations regarding the physical operating environment for		
A.11.2.4	Faulament maintenance		organizational assets are met		
A.11.2.4	Equipment maintenance		PR.DS-8: Integrity checking mechanisms are used to verify hardware integrity PR.MA-1: Maintenance and repair of organizational assets are performed and		
			logged, with approved and controlled tools		
		Equipment should be correctly maintained to ensure its continued	PR.MA-2: Remote maintenance of organizational assets is approved, logged, and		
A.11.2.5	Removal of assets	availability and integrity.	performed in a manner that prevents unauthorized access		
A.11.2.5	Removal of assets		PR.AC-2: Physical access to assets is managed and protected PR.DS-3: Assets are formally managed throughout removal, transfers, and		
			disposition		
		Equipment, information or software should not be taken off-site without	PR.MA-1: Maintenance and repair of organizational assets are performed and		
A.11.2.6	Security of equipment and assets off-premises	prior authorisation.	logged, with approved and controlled tools ID.AM-4: External information systems are catalogued		
A.11.2.0	security of equipment and assets off-premises		PR.AC-2: Physical access to assets is managed and protected		
		Security controls should be applied to off-site assets, taking into account	PR.AC-3: Remote access is managed		
		the different risks involved with working outside the organisation's	PR.MA-1: Maintenance and repair of organizational assets are performed and		
A.11.2.7	Secure disposal or re-use of equipment	premises.	logged, with approved and controlled tools PR.AC-2: Physical access to assets is managed and protected		
A.11.2.7	secure disposar of re use of equipment	All items of equipment including storage media should be verified to	PR.DS-3: Assets are formally managed throughout removal, transfers, and		
		ensure that any sensitive data and licensed software has been removed or	disposition		
A.11.2.8	Unattended user equipment	securely overwritten prior to disposal or re-use.  Users shold ensure that any unattended equipment has the appropriate	PR.IP-6: Data is destroyed according to policy PR.AC-2: Physical access to assets is managed and protected		
A.11.2.0	onactended user equipment	protection.	PR.AC-2. Physical access to assets is managed and protected		
A.11.2.9	Clear desk and clear screen policy	A clear desk policy for papers and removable storage media and a clear	PR.PT-2: Removable media is protected and its use restricted according to policy		
		screen policy for information processing facilities should be adopted.			
A 13	One set in an annual to				
<b>A.12</b> A.12.1	Operations security Operational procedures and responsibilities				
	Operations security Operational procedures and responsibilities Documented operating procedures	Operating procedures should be documented and then made available to	DE.AE-1: A baseline of network operations and expected data flows for users and		
A.12.1 A.12.1.1	Operational procedures and responsibilities  Documented operating procedures	all users who need them.	systems is established and managed		OEE
A.12.1	Operational procedures and responsibilities		systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control	DOCU-09, CHNG-03, CHNG-10, CHNG-	Q56
A.12.1 A.12.1.1	Operational procedures and responsibilities  Documented operating procedures	all users who need them.  Changes to the organisation, business procedures, information processing	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality)	DOCU-09, CHNG-03, CHNG-10, CHNG-	Q56
A.12.1 A.12.1.1	Operational procedures and responsibilities  Documented operating procedures	all users who need them.  Changes to the organisation, business procedures, information processing	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q56
A.12.1 A.12.1.1	Operational procedures and responsibilities  Documented operating procedures	all users who need them.  Changes to the organisation, business procedures, information processing	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q56
A.12.1 A.12.1.1	Operational procedures and responsibilities  Documented operating procedures	all users who need them.  Changes to the organisation, business procedures, information processing	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q56
A.12.1 A.12.1.1 A.12.1.2	Operational procedures and responsibilities Documented operating procedures Change management	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DR.IP-3: A baseline of network operations and expected data flows for users and systems is established and managed	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q56
A.12.1.1 A.12.1.2 A.12.1.3	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance.	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	
A.12.1 A.12.1.1 A.12.1.2	Operational procedures and responsibilities Documented operating procedures Change management	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q56
A.12.1.1 A.12.1.2 A.12.1.3 A.12.1.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	
A.12.1.1 A.12.1.2 A.12.1.3 A.12.1.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	
A.12.1.1 A.12.1.2 A.12.1.3 A.12.1.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	
A.12.1.1 A.12.1.2 A.12.1.3 A.12.1.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware	all users who need them. Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.4E-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	
A.12.1.1 A.12.1.2 A.12.1.3 A.12.1.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware	systems is established and managed  PR.IP-1: A baseline configuration of information technology/industrial control  systems is created and maintained incorporating security principles (e.g. concept  of least functionality)  PR.IP-3: Configuration change control processes are in place  DE.AE-1: A baseline of network operations and expected data flows for users and  systems is established and managed  ID.BE-4: Dependencies and critical functions for delivery of critical services are  established  PR.DS-7: The development and testing environment(s) are separate from the  production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware,  and information integrity  DE.CM-4: Malicious code is detected  RS.MI-1: Incidents are contained	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	
A.12.1.1 A.12.1.2 A.12.1.3 A.12.1.4 A.12.2 A.12.2.1	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware  Controls against malware	all users who need them. Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.4E-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	
A.12.1.1 A.12.1.2 A.12.1.3 A.12.1.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed  PR.IP-1: A baseline configuration of information technology/industrial control  systems is created and maintained incorporating security principles (e.g. concept  of least functionality)  PR.IP-3: Configuration change control processes are in place  DE.AE-1: A baseline of network operations and expected data flows for users and  systems is established and managed  ID.BE-4: Dependencies and critical functions for delivery of critical services are  established  PR.DS-7: The development and testing environment(s) are separate from the  production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware,  and information integrity  DE.CM-4: Malicious code is detected  RS.MI-1: Incidents are contained	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q57
A.12.1.1 A.12.1.2  A.12.1.3  A.12.1.4  A.12.2 A.12.2.1  A.12.3 A.12.3.1	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup	all users who need them. Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-1: Incidents are contained RS.MI-2: Incidents are mitigated	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q57
A.12.1 A.12.1.3 A.12.1.4 A.12.2 A.12.2 A.12.3 A.12.3 A.12.3 A.12.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup  Logging and Monitoring	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-1: Incidents are contained RS.MI-2: Incidents are mitigated  PR.IP-4: Backups of information are conducted, maintained, and tested	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02  DATA-12, DATA-13, DATA-14, DATA-15, DATA-16, DATA-17	Q57
A.12.1.1 A.12.1.2  A.12.1.3  A.12.1.4  A.12.2 A.12.2.1  A.12.3 A.12.3.1	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-1: Incidents are contained RS.MI-2: Incidents are mitigated	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02	Q57
A.12.1 A.12.1.3 A.12.1.4 A.12.2 A.12.2 A.12.3 A.12.3 A.12.3 A.12.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup  Logging and Monitoring	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-1: Incidents are contained RS.MI-2: Incidents are mitigated  PR.IP-4: Backups of information are conducted, maintained, and tested  PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy DE.AE-2: Detected events are analyzed to understand attack targets and method:	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02  DATA-12, DATA-13, DATA-14, DATA-15, DATA-16, DATA-17, AAAI-17, AAAI-18, AAAI-19	Q57 Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15,
A.12.1 A.12.1.3 A.12.1.4 A.12.2 A.12.2 A.12.3 A.12.3 A.12.3 A.12.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup  Logging and Monitoring	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-2: Incidents are contained RS.MI-2: Incidents are mitigated  PR.IP-4: Backups of information are conducted, maintained, and tested  PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy DE.AE-3: Detected events are analyzed to understand attack targets and method: DE.AE-3: Event data are collected and correlated from multiple sources and	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02  DATA-12, DATA-13, DATA-14, DATA-15, DATA-16, DATA-17, AAAI-17, AAAI-18, AAAI-19	Q57 Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15,
A.12.1 A.12.1.3 A.12.1.4 A.12.2 A.12.2 A.12.3 A.12.3 A.12.3 A.12.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup  Logging and Monitoring	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.4E-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Obependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-1: Incidents are contained RS.MI-2: Incidents are mitigated  PR.IP-4: Backups of information are conducted, maintained, and tested  PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy DE.AE-2: Detected events are analyzed to understand attack targets and method: DE.AE-3: Event data are collected and correlated from multiple sources and sensors	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02  DATA-12, DATA-13, DATA-14, DATA-15, DATA-16, DATA-17  AAAI-17, AAAI-18, AAAI-19	Q57 Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15,
A.12.1 A.12.1.3 A.12.1.4 A.12.2 A.12.2 A.12.3 A.12.3 A.12.3 A.12.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup  Logging and Monitoring	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-2: Incidents are contained RS.MI-2: Incidents are mitigated  PR.IP-4: Backups of information are conducted, maintained, and tested  PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy DE.AE-3: Detected events are analyzed to understand attack targets and method: DE.AE-3: Event data are collected and correlated from multiple sources and	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02  DATA-12, DATA-13, DATA-14, DATA-15, DATA-16, DATA-17  AAAI-17, AAAI-18, AAAI-19	Q57 Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15,
A.12.1 A.12.1.3 A.12.1.4 A.12.2 A.12.2 A.12.3 A.12.3 A.12.3 A.12.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup  Logging and Monitoring	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-1: Incidents are contained RS.MI-2: Incidents are mitigated  PR.IP-4: Backups of information are conducted, maintained, and tested  PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy DE.AE-3: Event data are collected and correlated from multiple sources and sensors DE.CM-3: Personnel activity is monitored to detect potential cybersecurity event: DE.CM-7: Monitoring for unauthorized personnel, connections, devices, and software is performed	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02  DATA-12, DATA-13, DATA-14, DATA-15, DATA-16, DATA-17  AAAI-17, AAAI-18, AAAI-19	Q57 Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15,
A.12.1 A.12.1.3 A.12.1.4 A.12.2 A.12.2 A.12.3 A.12.3 A.12.3 A.12.4	Operational procedures and responsibilities Documented operating procedures  Change management  Capacity management  Separation of development, testing and operational environments  Protection from malware Controls against malware  Backup Information Backup  Logging and Monitoring	all users who need them.  Changes to the organisation, business procedures, information processing facilities and systems that affect information security should be controlled.  The use of resources should be monitored, tuned and projections made of future capacity requirements to ensure the required system performance. Development, testing and operational environments should be separated to reduce the risks of unauthorised access or changes to the operational environment.  Detection, prevention and recovery controls to protect against malware should be implemented, combined with the appropriate user awareness.  Backup copies of information, software and system images should be taken	systems is established and managed PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality) PR.IP-3: Configuration change control processes are in place DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed ID.BE-4: Dependencies and critical functions for delivery of critical services are established PR.DS-7: The development and testing environment(s) are separate from the production environment  PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity DE.CM-4: Malicious code is detected RS.MI-2: Incidents are contained RS.MI-2: Incidents are mitigated  PR.IP-4: Backups of information are conducted, maintained, and tested  PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy DE.AE-2: Detected events are analyzed to understand attack targets and method: DE.AE-2: Sevent data are collected and correlated from multiple sources and sensors DE.CM-3: Personnel activity is monitored to detect potential cybersecurity event: DE.CM-7: Monitoring for unauthorized personnel, connections, devices, and	DOCU-09, CHNG-03, CHNG-10, CHNG- 11, CHNG-13, CHNG-14, CHNG-15, CHNG-16, PPPR-02  DATA-12, DATA-13, DATA-14, DATA-15, DATA-16, DATA-17  AAAI-17, AAAI-18, AAAI-19	Q57 Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15,

security events should be produced, kept and reviewed regularly.

A.12.4.2	Protection of log information	Logging facilities and log information should be protected against	PR.PT-1: Audit/log records are determined, documented, implemented, and		Q14, Q15
A.12.4.3	Administrator and operator log	tampering and unauthorised access.	reviewed in accordance with policy PR.PT-1: Audit/log records are determined, documented, implemented, and		Q8, Q10, Q12
			reviewed in accordance with policy		20, 200, 200
			DE.CM-3: Personnel activity is monitored to detect potential cybersecurity events		
		System administrator and system operator activities need to be logged and the logs protected and regularly reviewed.	RS.AN-1: Notifications from detection systems are investigated		
A.12.4.4	Clock synchronization	The clocks of all relevant information processing systems within an	PR.PT-1: Audit/log records are determined, documented, implemented, and		
N.12.4.4	Clock Synchronization	organisation or security domain should be synchronised to a single	reviewed in accordance with policy		
		reference time source.	<u> </u>		
A.12.5	Control of operational software				
A.12.5.1	Installation of software on operational systems		ID.AM-2: Software platforms and applications within the organization are inventoried		
			PR.DS-6: Integrity checking mechanisms are used to verify software, firmware,		
			and information integrity		
			PR.IP-1: A baseline configuration of information technology/industrial control		
			systems is created and maintained incorporating security principles (e.g. concept of least functionality)		
		Procedures should be implemented to control the installation of software	PR.IP-3: Configuration change control processes are in place		
		on operational systems.	DE.CM-5: Unauthorized mobile code is detected		
A.12.6	Technical vulnerability management				
A.12.6.1	Management of technical vulnerabilities		ID.RA-1: Asset vulnerabilities are identified and documented ID.RA-5: Threats, vulnerabilities, likelihoods, and impacts are used to determine	FIDP-01-11, VULN-01-6	
			risk		
			PR.IP-12: A vulnerability management plan is developed and implemented		
		Information about technical vulnerabilities of information systems being	DE.CM-8: Vulnerability scans are performed		
		used should be obtained in a timely fashion, the organisation's exposure to	RS.MI-3: Newly identified vulnerabilities are mitigated or documented as accepted risks		
		such vulnerabilities evaluated and appropriate measures taken to address	decepted 1343		
		the associated risk.			
A.12.6.2	Restriction on software installation	Rules governing the installation of software by users should be established and implemented.	PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept		
		and imperienced.	of least functionality)		
			PR.IP-3: Configuration change control processes are in place		
			DE.CM-5: Unauthorized mobile code is detected		
A.12.7	Information systems audit considerations				
A.12.7.1	Information system audit control	Audit requirements and activities involving verification of operational	PR.PT-1: Audit/log records are determined, documented, implemented, and		Q11, Q13, Q16, Q17, Q25
		systems should be carefully planned and agreed on to minimise disruptions	reviewed in accordance with policy		
A.13	Communications security	to the business processes.			
A.13.1	Network security management				
A.13.1.1	Network controls		PR.AC-3: Remote access is managed	FIDP-01-11	
			PR.AC-5: Network integrity is protected (e.g., network segregation, network segmentation)		
			PR.DS-2: Data-in-transit is protected		
			PR.PT-4: Communications and control networks are protected		
		Networks should be managed and controlled in order to protect	DE.AE-1: A baseline of network operations and expected data flows for users and		
A.13.1.2	Security of network services	information within systems and applications.	systems is established and managed DE.AE-1: A baseline of network operations and expected data flows for users and		
		Security mechanisms, service levels and management requirements of all	systems is established and managed		
		network services should be identified and included in network services			
A.13.1.3	Segregation in networks	agreements, whether these services are provided in-house or outsourced. Groups of information services, users and information systems should be	PR.AC-5: Network integrity is protected (e.g., network segregation, network		
A.13.1.3	segregation in networks	segregated on networks.	segmentation)		
A.13.2	Information transfer				
A.13.2.1	Information transfer policies and procedures		ID.AM-3: Organizational communication and data flows are mapped PR.AC-3: Remote access is managed		Q43
			PR.AC-3: Remote access is managed PR.AC-5: Network integrity is protected (e.g., network segregation, network		
		Formal transfer policies, procedures and controls should be in place to	segmentation)		
		protect the transfer of information through the use of all types of	PR.DS-2: Data-in-transit is protected		
A.13.2.2	Agreements on information transfer	communication facilities.  Agreements should address the secure transfer of business information	PR.PT-4: Communications and control networks are protected ID.AM-3: Organizational communication and data flows are mapped		Q17, Q24, Q25
		between the organisation and any external parties.			
A.13.2.3	Electronic messaging	Information involved in any form of electronic messaging should to be	PR.DS-2: Data-in-transit is protected		Q43
A.13.2.4	Confidentiality or non-disclosure agreements	appropriately protected.  Requirements for confidentiality or non-disclosure agreements that reflect			
D.13.4.4	confidentiality of non-disclosure agreements	the organisation's needs for the protection of information should be			
		identified, regularly reviewed and documented.			
A.14	System acquisition, development and maintenance				
A.14.1 A.14.1.1	Security requirements of information systems Information security requirements analysis and specification	The information security related requirements should be included in any	PR.IP-2: A System Development Life Cycle to manage systems is implemented	PPPR-04, PPPR-05	
	specification	requirements for new information systems or enhancements to existing	zystem z z z z z z z z z z z z monoge systems is implemented		
		information systems.			

Securing application services on public networks  Protecting application services transactions	Information involved in application services passing over public networks should be protected from fraudulent activity, contract dispute and unauthorised disclosure and modification.  Information involved in application service transactions should be protected to prevent incomplete transmission, mis-routing, unauthorised message alteration, unauthorised disclosure, unauthorised message duplication or replay.	PR.AC-5: Network integrity is protected (e.g., network segregation, network segmentation) PR.DS-2: Data-in-transit is protected PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity PR.AC-5: Network integrity is protected (e.g., network segregation, network segmentation) PR.DS-2: Data-in-transit is protected PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity PR.PT-4: Communications and control networks are protected		
Security in development and support processes Secure development policy	Rules for the development of software and systems should be established	PR.IP-2: A System Development Life Cycle to manage systems is implemented		Q57
System change control procedures	and applied to developments within the organisation.	PR.IP-1: A baseline configuration of information technology/industrial control		
Technical review of applications after operating platform changes	Changes to systems within the development lifecycle should be controlled by the use of formal change control procedures.  When operating platforms are changed, business critical applications should be reviewed and tested to ensure there is no adverse impact on the organisational operations or security.	of least functionality)  PR.IP-3: Configuration change control processes are in place  PR.IP-1: A baseline configuration of information technology/industrial control  systems is created and maintained incorporating security principles (e.g. concept  of least functionality)  PR.IP-3: Configuration change control processes are in place		
Restrictions on chnages to software packages	Modifications to software packages should be discouraged, limited to	PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality)		
Secure system engineering principles	Principles for engineering secure systems should be established, documented, maintained and applied to any information system	PR.IP-3: Configuration change control processes are in place PR.IP-2: A System Development Life Cycle to manage systems is implemented		
Secure development environment	Organisations should establish and appropriately protect secure development environments for system development and integration efforts			
Outsourced development		DE.CM-6: External service provider activity is monitored to detect potential cybersecurity events		
System security testing System acceptance testing	The organisation should supervise and monitor the activity of outsourced system development.  Testing of security functionality should be carried out during development.  Acceptance testing programs and related criteria should be established for new information systems, upgrades and new versions.	DE.CM-7: Monitoring for unauthorized personnel, connections, devices, and software is performed DE.DP-3: Detection processes are tested		
Test Data Protection of test data	Test data should be selected carefully, protected and controlled.			
Suppliers relationships	rest data should be selected earerday, protected and controlled.			
Information security in supplier relationships Information security policy for supplier relationships	Information security requirements for mitigating the risks associated with suppliers access to the organisation's assets should be agreed with the supplier and documented.	ID. BE-1: The organization's role in the supply chain is identified and communicated ID. GV-2: Cybersecurity roles and responsibilities are coordinated and aligned with internal roles and external partners ID. SC-1: Cyber supply chain risk management processes are identified, established, assessed, managed, and agreed to by organizational stakeholders ID.SC-3: Contracts with suppliers and third-party partners are used to implement appropriate measures designed to meet the objectives of an organization's cybersecurity program and Cyber Supply Chain Risk Management Plan. PR.MA-2: Remote maintenance of organizational assets is approved, logged, and performed in a manner that prevents unauthorized access	THRD-01, THRD-02	Q47
Addressing security within supplier agreements	All relevant information security requirements should be established and agreed with each supplier that may access, process, store, communicate, or provide IT infrastructure components for, the organisation's information.	ID.BE-1: The organization's role in the supply chain is identified and communicated ID.SC-1: Cyber supply chain risk management processes are identified, established, assessed, managed, and agreed to by organizational stakeholders ID.SC-3: Contracts with suppliers and third-party partners are used to implement appropriate measures designed to meet the objectives of an organization's cybersecurity program and Cyber Supply Chain Risk Management Plan.  ID.BE-1: The organization's role in the supply chain is identified and	THRD-03	
	Protecting application services transactions  Security in development and support processes Secure development policy System change control procedures  Technical review of applications after operating platform changes  Restrictions on chnages to software packages  Secure system engineering principles  Secure development environment  Outsourced development  System security testing System acceptance testing  Test Data Protection of test data  Suppliers relationships Information security in supplier relationships Information security policy for supplier relationships Information security policy for supplier relationships  Addressing security within supplier agreements	Information involved in application services passing over public networks should be protected from fraudulent activity, contract dispute and unauthorized discloure and modification. Information involved in application service transactions should be protected to prevent incomplete transmission, mis-routing, unauthorized message alteration, unauthorized discloure, unauthorized message duplication or replay.  Security in development and support processes  Secure development and support processes  Secure development policy  System change control procedures  Technical review of applications after operating platform changes  Technical review of applications after operating platform changes  Technical review of applications after operating platform changes  Modifications to software packages should be controlled by the use of format change control procedures.  When operating platforms are changed, business critical applications should be reviewed and tested to ensure there is no adverse impact on the organisational operations or security.  Secure system engineering principles  Secure development environment  Secure development environment  Outsourced development  Secure development environment  Outsourced development  The organisation should supervise and monitor the activity of outsourced dystem development.  The organisation should supervise and monitor the activity of outsourced dystem development infectycle.  Test data  Test data should be selected and controlled.  Supplier relationships  Information security inscipiler relationships  Information security policy for supplier relationships  Information security policy for supplier relationships  Information security protected and controlled.  Addressing security within supplier agreements	Information involved in againstance environment or more position review problems and construction in the particular or excellent production and the particular or excellent production in the particular or excellent production or excellent production or excellent production or excellent production or excellent productions or ex	Infernation involves in a particular to explorate proteins protein proteins and a protein p

A.15.2	Supplier service delivery managemnt		ID DE 1. The experimetion's rate in the supply shain is identify -1 1	TURD OF TURD OF ARRIVE	
A.15.2.1	Monitoring and review of supplier services  Managing changes to supplier services	Organisations should regularly monitor, review and audit their supplier service delivery.	ID.BE-1: The organization's role in the supply chain is identified and communicated ID.SC-1: Cyber supply chain risk management processes are identified, established, assessed, managed, and agreed to by organizational stakeholders ID.SC-1: Suppliers and third party partners of information systems, components, and services are identified, prioritized, and assessed using a cyber supply chain risk assessment process ID.SC-4: Suppliers and third-party partners are routinely assessed using audits, test results, or other forms of evaluations to confirm they are meeting their contractual obligations. PR.MA-2: Remote maintenance of organizational assets is approved, logged, and performed in a manner that prevents unauthorized access DE.CM-6: External service provider activity is monitored to detect potential cybersecurity events DE.CM-7: Monitoring for unauthorized personnel, connections, devices, and software is performed ID.BE-1: The organization's role in the supply chain is identified and communicated ID.SC-1: Cyber supply chain risk management processes are identified,	THRD-04, THRD-05, APPL-05 THRD-05	
		Changes to the provision of services by suppliers, including maintaining and improving existing information security policies, procedures and controls, should be managed, taking into account the criticality of business information, the nature of the change, the supplier type/s affected, the systems and processes involved and a re-assessment of risks.	established, assessed, managed, and agreed to by organizational stakeholders ID.SC-2: Suppliers and third party partners of information systems, components, and services are identified, prioritized, and assessed using a cyber supply chain risk assessment process ID.SC-4: Suppliers and third-party partners are routinely assessed using audits, test results, or other forms of evaluations to confirm they are meeting their contractual obligations.		
A.16	Information security incident management	systems and processes involved and a re assessment of risks.	contractual obligations.		
A.16.1 A.16.1.1	Management of information security incidents and improvements  Responsibilities and procedures		PR.IP-9: Response plans (Incident Response and Business Continuity) and recovery	DDDI 01 DDDI 02 DDDI 04 DDDI 05	030 031 033 033
A.10.1.1	responsibilities and procedures	Management responsibilities and procedures should be established in order to ensure a quick, effective and orderly response to information security incidents.	plans (Incident Recovery and Disaster Recovery) are in place and managed plans (Incident Recovery and Disaster Recovery) are in place and managed DE.AE-2: Detected events are analyzed to understand attack targets and methods RS.CO-1: Personnel know their roles and order of operations when a response is needed	DRPL-07, DRPL-08, DRPL-09, DRPL-11,	(zi), (zz.), (zz.)
A.16.1.2	Reporting information security events	Information security events should be reported through appropriate management channels as quickly as possible.	DE.DP-4: Event detection information is communicated RS.CO-2: Incidents are reported consistent with established criteria RS.CO-3: Information is shared consistent with response plans	PPPR-07	Q24, Q25
A.16.1.3	Reporting information security weaknesses	Employees and contractors using the organization's information systems and services should be required to note and report any observed or suspected information security weaknesses in systems or services.	PR.IP-12: A vulnerability management plan is developed and implemented DE.DP-4: Event detection information is communicated		Q21, Q23
A.16.1.4	Assessment of and decision on information security events	Information security events should be assessed and it should be decided if they are to be classified as information security incidents.	DE.AE-2: Detected events are analyzed to understand attack targets and methods DE.AE-4: Impact of events is determined DE.AE-5: Incident alert thresholds are established RS.AN-2: The impact of the incident is understood RS.AN-4: Incidents are categorized consistent with response plans		Q22
A.16.1.5	Response to information security incidents	Information security incidents should be responded to in accordance with	RS.RP-1: Response plan is executed during or after an incident RS.AN-1: Notifications from detection systems are investigated RS.MI-1: Incidents are contained RS.MI-2: Incidents are mitigated	IH-01	Q22
A.16.1.6	Learning from information security incidents	the documented procedures.	RC.RP-1: Recovery plan is executed during or after a cybersecurity incident ID.RA-4: Potential business impacts and likelihoods are identified PR.IP-7: Protection processes are improved PR.IP-8: Effectiveness of protection technologies is shared DE.DP-5: Detection processes are continuously improved RS.AN-2: The impact of the incident is understood RS.IM-1: Response plans incorporate lessons learned		Q22
		Knowledge gained from analyzing and resolving information security incidents should be used to reduce the likelihood or impact of future incidents.	RS.IM-2: Response strategies are updated RC.IM-1: Recovery plans incorporate lessons learned RC.IM-2: Recovery strategies are updated		
A.16.1.7	Collection of evidence	The organization should define and apply procedures for the identification, collection, acquisition, and preservation of information, which can serve as evidence.	DE.AE-3: Event data are collected and correlated from multiple sources and sensors RS.AN-3: Forensics are performed		Q20, Q21, Q22, Q23
A.17	Information security aspects of business continuity management				
A.17.1 A.17.1.1	Information security continuity Planning information security continuity	The organization should determine its requirements for information security and the continuity of information security management in adverse situations, e.g. during a crisis or disaster.	ID.BE-5: Resilience requirements to support delivery of critical services are established for all operating states (e.g. under duress/attack, during recovery, normal operations) PR.IP-9: Response plans (Incident Response and Business Continuity) and recovery plans (Incident Recovery and Disaster Recovery) are in place and managed	DRPL-01, DRPL-02, DRPL-04, DRPL-05, DRPL-07, DRPL-08, DRPL-09, DRPL-11 y	QS

A.17.1.2	Implementing information security continuity	The organization should establish, document, implement and maintain processes, procedures, and controls to ensure the required level of	ID.BE-5: Resilience requirements to support delivery of critical services are established for all operating states (e.g. under duress/attack, during recovery, normal operations) PR.IP-4: Backups of information are conducted, maintained, and tested PR.IP-9: Response plans (incident Response and Business Continuity) and recover plans (incident Recovery and Disaster Recovery) are in place and managed PR.PT-5: Mechanisms (e.g., failsafe, load balancing, hot swap) are implemented to achieve resilience requirements in normal and adverse situations	•	Q5
A.17.1.3	Verify, review and evaluate information security continuity	continuity for information security during an adverse situation.	ID.SC-5: Response and recovery planning and testing are conducted with supplier and third-party providers PR.IP-4: Backups of information are conducted, maintained, and tested PR.IP-9: Response plans (incident Response and Business Continuity) and recoven	DRPL-07, DRPL-08, DRPL-09, DRPL-11	Q5
		The organization should verify the established and implemented information security continuity controls at regular intervals in order to ensure that they are valid and effective during adverse situations.	plans (Incident Recovery and Disaster Recovery) are in place and managed PR.IP-10: Response and recovery plans are tested		
A.17.2	Redundancies	<b>,</b>			
A.17.2.1	Availability of information processing facilities	Information processing facilities should be implemented with redundancy	ID.BE-5: Resilience requirements to support delivery of critical services are established for all operating states (e.g. under duress/attack, during recovery, normal operations) PR.PT-5: Mechanisms (e.g., failsafe, load balancing, hot swap) are implemented to achieve resilience requirements in normal and adverse situations	)	Q46
	• "	sufficient to meet availability requirements.			
A.18	Compliance				
A.18.1	Compliance with legal and contractual requirements				
A.18.1.1	Identification of applicable legislation and contractual requirements	All relevant legislative statutory, regulatory, contractual requirements and the organization's approach to meet these requirements should be explicitly identified, documented and kept up to date for each information system and the organization.	ID.GV-3: Legal and regulatory requirements regarding cybersecurity, including privacy and civil liberties obligations, are understood and managed		
A.18.1.2	Intellectual property rights	Appropriate procedures should be implemented to ensure compliance with legislative, regulatory and contractual requirements related to intellectual property rights and use of proprietary software products.	ID.GV-3: Legal and regulatory requirements regarding cybersecurity, including privacy and civil liberties obligations, are understood and managed		
A.18.1.3	Protection of records	Records should be protected from loss, destruction, flasification, unauthorized access and unauthorized release, in accordance with legislator, regulatory, contractual and business requirements.	ID.GV-3: Legal and regulatory requirements regarding cybersecurity, including privacy and civil liberties obligations, are understood and managed PR.IP-4: Backups of information are conducted, maintained, and tested		Q14, Q15
A.18.1.4 A.18.1.5	Privacy and protection of personally identifiable information  Regulation of cryptographic controls	Privacy and protection of personally identifiable information should be ensured as required in relevant legislation and regulation where applicable. Cryptographic controls should be used in compliance with all relevant	ID.GV-3: Legal and regulatory requirements regarding cybersecurity, including privacy and civil liberties obligations, are understood and managed PR.A.G-7: Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g., individuals' security and privacy risks and other organizational risks) DE.DP-2: Detection activities comply with all applicable requirements ID.GV-3: Legal and regulatory requirements regarding cybersecurity, including	PPPR-03	
		agreements, legislation and regulations.	privacy and civil liberties obligations, are understood and managed		
A.18.2	Information security reviews				
A.18.2.1	Independent review of information security	The organization's approach to managing information security and its implementation (i.e. control objectives, controls, policies, processes and procedures for information security) should be reviewed independently at planned intervals or when significant changes occur.			Q6
A.18.2.2	Compliance with security policies and standards	Managers should regularly review the compliance of information processing and procedures within their area of responsibility with the appropriate security policies, standards and any other security requirements.	PR.IP-12: A vulnerability management plan is developed and implemented DE.DP-2: Detection activities comply with all applicable requirements		
A.18.2.3	Technical compliance review	Information systems should be regularly reviewed for compliance with the organization's information security policies and standards.	ID.RA-1: Asset vulnerabilities are identified and documented PR.IP-12: A vulnerability management plan is developed and implemented DE.DP-2: Detection activities comply with all applicable requirements		
NIST Cybersecurity Frame	ework controls not immediately covered by ISO27001 Annex A				
	ID.BE-2: The organization's place in critical infrastructure and its industry				
	sector is identified and communicated				
	ID.BE-3: Priorities for organizational mission, objectives, and activities are				
	established and communicated				
	ID.GV-4: Governance and risk management processes address cybersecuri	ity	Addresses clause 6 of ISO 27001		
	risks ID.RA-3: Threats, both internal and external, are identified and documente	ed	Addresses clause 6.1.2 of ISO 27001		
	ID.RA-6: Risk responses are identified and prioritized		Addresses clause 6.1.2 of ISO 27001		
	ID.RM-1: Risk management processes are established, managed, and agreed to by organizational stakeholders		Addresses clause 6.1.2 of 150 27001 Addresses clause 6.1.3, 8.3, 9.3 of ISO 27001		
	ID.RM-2: Organizational risk tolerance is determined and clearly expresse	d	Addresses clause 6.1.3, 8.3 of ISO 27001		
	ID.RM-3: The organization's determination of risk tolerance is informed by	у	Addresses clause 6.1.3, 8.3 of ISO 27001		
	its role in critical infrastructure and sector specific risk analysis				
	PR.IP-7: Protection processes are improved		Addresses clause 9, 10 of ISO 27001		

DE.CM-1: The network is monitored to detect potential cybersecurity

RS.CO-3: Information is shared consistent with response plans

RS.CO-4: Coordination with stakeholders occurs consistent with response plans

RS.AN-5: Processes are established to receive, analyze and respond to vulnerabilities disclosed to the organization from internal and external sources (e.g. internal testing, security bulletins, or security researchers)

RS.IM-1: Response plans incorporate lessons learned

RS.IM-2: Response strategies are updated

RC.IM-1: Recovery plans incorporate lessons learned

RC.IM-2: Recovery strategies are updated

RC.CO-1: Public relations are managed

RC.CO-2: Reputation is repaired after an incident

RC.CO-3: Recovery activities are communicated to internal and external stakeholders as well as executive and management teams

Addresses clause 7.4, 16.1.2 of ISO 27001 Addresses clause 7.4 of ISO 27001

Addresses clause 10 of ISO 27001

Addresses clause 10 of ISO 27001 Addresses clause 10 of ISO 27001 Addresses clause 10 of ISO 27001 Addresses clause 10 of ISO 27001 Addresses clause 7.4 of ISO 27001 Addresses clause 7.4 of ISO 27001