

List of UoCs for the updates of SCS for ICT industry

Filename	Mode of Revision	Replace Existing UoC?	UoC Title	QF Level	SCS	Functional Area	Revision / director adoption from existing UoCs (if any)	Existing UoC Title	Relevant Areas							
									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management	
ICTUOC-002	Revision	Yes	Formulate digital marketing strategy	7	DMT	Marketing Management	107914L7	Formulate digital marketing strategy		Yes						
ICTUOC-003	Revision	Yes	Define data governance policies and architecture principles	6	SW	Architecture	ITSWAR608A	Define data manage policies and architecture principles	Yes			Yes		Yes		
ICTUOC-004	Revision	Yes	Develop application integration architecture	6	SW	Architecture	ITSWAR617A ITSWAR618A	Recommend application integration architecture models Develop application integration architecture resources					Yes	Yes		
ICTUOC-005	Revision	Yes	Develop information security standard, policies and guidelines for the company	6	SW	Information Security	ITCSPL606A 109366L6	Establish security policy for the products / services Formulate IT and cybersecurity policies, roadmaps and strategies			Yes					
ICTUOC-006	Revision	Yes	Develop response and recovery plans	6	SW	Information Security	ITSWIS614A	Develop response and recovery plans	Yes							
ICTUOC-007	Revision	Yes	Formulate business strategies and policies	6	SW	Strategic Management	ITSWSM602A	Formulate business strategies and policies	Yes	Yes		Yes	Yes	Yes	Yes	Yes
ICTUOC-008	Revision	Yes	Formulate digital marketing strategy beyond Hong Kong	6	DMT	Marketing Management	108027L6	Formulate digital marketing strategy for Mainland China		Yes						
ICTUOC-009	Revision	Yes	Identify and evaluate information technologies that support the objectives of an organisation	6	SW	Strategic Management	ITSWSM612A	Identify and evaluate information technologies that support the objectives of an organisation	Yes			Yes	Yes			Yes
ICTUOC-010	Revision	Yes	Maintain the portfolio and supply chain management with different stakeholders	6	SW	Strategic Management	ITSWG618A	Manage and maintain the portfolio and relationship with business partners				Yes				Yes
ICTUOC-011	Revision	No	Manage IT service management strategy	6	SW	Strategic Management	ITSWG620A	Understand IT operations and IT processing			Yes					
ICTUOC-012	Revision	Yes	Review and comply with organisational policies and procedures, relevant laws and regulatory requirements	6	SW	Strategic Management	ITSWG624A ITSWG602A	Comply with relevant laws and regulatory requirements Comply with organisational policies and procedures, relevant laws and regulatory requirements	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICTUOC-013	Revision	Yes	Review key controls metrics regularly to fulfill the security standard	6	SW	Information Security	ITSWIS609A	Establish metrics to manage information security governance framework	Yes		Yes					
ICTUOC-014	Revision	Yes	Review, design and re-engineer business processes to form a new business architecture	6	SW	Architecture	ITSWAR607A	Review, design and re-engineer business processes to form a new business architecture					Yes	Yes		
ICTUOC-015	Revision	Yes	Set policy to control data security and privacy	6	SW	Strategic Management	ITSWSM611A	Set policy to control data security and privacy	Yes		Yes	Yes	Yes	Yes		Yes
ICTUOC-016D	Direct Adoption	N/A	Conduct security investigation	6	SW	O&S	ITSWOS619A	Conduct security investigation			Yes					
ICTUOC-017	Revision	Yes	Determine technology mix for the design and development of embedded software systems	6	SW	Architecture	ITSWAR620A	Determine technology mix for the design and development of embedded software systems	Yes							
ICTUOC-018D	Direct Adoption	N/A	Develop an information system security audit plan	6	SW	Information Security	ITSWIS618A	Develop an information system security audit plan			Yes					
ICTUOC-019	Revision	Yes	Develop digital content delivery network strategy	6	DMT	DMT Architecture	108052L6	Develop content delivery network strategy for digital media business		Yes						
ICTUOC-020D	Direct Adoption	N/A	Develop, propose and promulgate an enterprise's information security policies	6	SW	Information Security	ITSWIS611A	Develop, propose and promulgate an enterprise's information security policies			Yes					
ICTUOC-021D	Direct Adoption	N/A	Devise processes for detecting, identifying and analyzing security incident	6	SW	Information Security	ITSWIS613A	Devise processes for detecting, identifying and analyzing security incident			Yes					
ICTUOC-022D	Direct Adoption	N/A	Establish a business case for an IT investment	6	SW	Generic Skills	ITSWG617A	Establish a business case for an IT investment		Yes		Yes		Yes		

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management	
ICTUOC-023D	Direct Adoption	N/A	Establish and maintain information security policies	6	SW	Information Security	ITSWIS601A	Establish and maintain information security policies			Yes					
ICTUOC-024D	Direct Adoption	N/A	Establish corporate information security standards	6	SW	Information Security	ITSWIS612A	Establish corporate information security standards			Yes					
ICTUOC-025D	Direct Adoption	N/A	Formulate IT strategies and policies	6	SW	Strategic Management	ITSWSM603A	Formulate IT strategies and policies	Yes	Yes	Yes	Yes	Yes			
ICTUOC-026D	Direct Adoption	N/A	Manage and maintain the portfolio and relationship with business partners	6	SW	Generic Skills	ITSWG618A	Manage and maintain the portfolio and relationship with business partners		Yes						
ICTUOC-027D	Direct Adoption	N/A	Manage post-event reviews	6	SW	Information Security	ITSWIS615A	Manage post-event reviews	Yes							
ICTUOC-028D	Direct Adoption	N/A	Prepare a budget based on the IT plan	5	SW	Strategic Management	ITSWSM504A	Prepare a budget based on the IT plan	Yes	Yes		Yes	Yes			
ICTUOC-029D	Direct Adoption	N/A	Prepare initial project plan	6	SW	Project Management	ITSWPM603A	Prepare initial project plan		Yes				Yes		
ICTUOC-030D	Direct Adoption	N/A	Understand Systems Development Life Cycle (SDLC) and software development process	6	SW	Generic Skills	ITSWG619A	Understand Systems Development Life Cycle (SDLC) and software development process						Yes		
ICTUOC-031	New	N/A	Design the digital forensic process in terms of technical and legal aspects	6	SW	Information Security	-	-			Yes					
ICTUOC-032	New	N/A	Design the evaluation criteria security test plans	6	SW	Information Security	-	-			Yes					
ICTUOC-033	New	N/A	Review the emerging technologies and cross-functional strategies	6	SW	Strategic Management	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICTUOC-034	New	N/A	Review the ethical and social issues for IT applications	6	SW	Strategic Management	-	-	Yes	Yes		Yes	Yes	Yes	Yes	Yes
ICTUOC-035	Revision	Yes	Acquire and protect the copyrights and IP rights related to IT	5	SW	Generic Skills	ITSWG523A	Acquire and protect the copyrights and IP rights related to IT		Yes						
ICTUOC-036	Revision	No	Conduct investigation of Information Security Incidents	5	SW	Information Security	106760L5 (Private banking)	Conduct security investigation			Yes					
ICTUOC-037	Revision	No	Conduct solicitation process in project outsourcing	5	SW	Project Management	ITSWPM521A ITSWPM522A	Conduct solicitation planning Conduct solicitation				Yes	Yes			
ICTUOC-038	Revision	Yes	Conduct solicitation planning	5	SW	Project Management	ITSWPM521A	Conduct solicitation planning	Yes	Yes		Yes				
ICTUOC-039	Revision	Yes	Define a system migration plan	6	SW	Design, Development & Maintenance	ITSWDM611A	Define a software deployment / migration plan	Yes			Yes	Yes			
ICTUOC-040	Revision	Yes	Define metrics to ensure that a technology architecture meets the business goals	5	SW	Architecture	ITSWAR508A	Define metrics to ensure that a technology architecture meets the business goals	Yes	Yes		Yes	Yes			
ICTUOC-041	Revision	No	Develop data analysis programmes in enterprise intelligence systems	5	SW	Design, Development & Maintenance	109398L5 (From Banking SCS)	Develop data analysis programmes in enterprise intelligence systems						Yes		
ICTUOC-042	New	Yes (replace ITSWIS614A only)	Develop procedures to implement incident response plan	5	SW	Information Security	ITSWIS511A ITSWIS614A	Manage the execution of response and response plan Develop response and recovery plans	Yes		Yes	Yes				
ICTUOC-043	Revision	Yes	Develop procedures to maintain and comply the information security standard and policies of the organisation	5	SW	Information Security	ITSWIS506A	Develop information security practices and procedures			Yes					
ICTUOC-044	Revision	No	Develop secure computer networking applications	5	SW	Information Security	ITSWAR507A	Model technology architecture			Yes					

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management
ICTUOC-045	Revision	No	Develop the microservice architecture	5	SW	Architecture	ITSWAR501A	Evaluate and select architecture design options and related architecture artefacts				Yes			
ICTUOC-046	Revision	Yes	Establish a business continuity planning strategy	5	SW	Strategic Management	ITSWIS519A	Establish a business continuity planning strategy				Yes			
ICTUOC-047	Revision	No	Evaluate the results of application security assessment for improvement recommendation	5	SW	Information Security	ITSWDM602A	Propose a high level design (HLD) of the software	Yes		Yes				
ICTUOC-048	Revision	Yes	Formulate IT plan	5	SW	Strategic Management	ITSWSM503A	Formulate IT plan	Yes	Yes		Yes	Yes		Yes
ICTUOC-049	Revision	Yes	Identify the potential security threats to the organisation	5	SW	Information Security	ITSWIS605A	Identify the potential security threats to the company			Yes				
ICTUOC-050	Revision	Yes	Manage the execution of response and recovery plans	5	SW	Information Security	ITSWIS511A	Manage the execution of response and recovery plans	Yes						
ICTUOC-051	Revision	Yes	Model technology architecture	5	SW	Architecture	ITSWAR507A	Model technology architecture					Yes		
ICTUOC-052	Revision	Yes	Perform network security assessment for the company	5	SW	Information Security	ITCSNO530A	Define network infrastructure access policies			Yes				
ICTUOC-053	Revision	Yes	Perform risk assessment on system migration	6	SW	Design, Development & Maintenance	ITSWDM610A	Perform risk assessment on software deployment and migration				Yes			
ICTUOC-054	Revision	Yes	Prepare and deliver information system security audit report	5	SW	Information Security	ITSWIS514A	Prepare and deliver information system security audit report			Yes				
ICTUOC-055	Revision	Yes	Prepare documentation to report the security testing and findings	5	SW	Information Security	ITSWIS512A	Establish procedures documenting security incident			Yes				
ICTUOC-056	New	No	Project the potential costs, benefits and ROI of IT project	5	SW	Strategic Management	ITSWG524A ITSWSM504A	Review and adjust business strategies and policies Prepare a budget based on the IT plan	Yes	Yes		Yes	Yes		
ICTUOC-057	Revision	Yes	Propose appropriate countermeasures to prevent security attacks	5	SW	Information Security	ITSWIS525A	Minimize information security risks			Yes				
ICTUOC-058	New	Yes	Review the possible causes of the threats for remedial actions recommendation	5	SW	Information Security	-	-			Yes				
ICTUOC-059D	Direct Adoption	N/A	Articulate the time and effort requirements needed for product-based planning	5	SW	Project Management	ITSWPM503A	Articulate the time and effort requirements needed for product-based planning	Yes	Yes					
ICTUOC-060D	Direct Adoption	N/A	Conduct operation security risk assessment and audit	5	SW	Information Security	ITSWOS530A	Conduct operation security risk assessment and audit			Yes				
ICTUOC-061	Revision	Yes	Conduct project closure with respect to time	5	SW	Project Management	ITSWPM505A	Conduct project closure with respect to time	Yes	Yes					
ICTUOC-062D	Direct Adoption	N/A	Conduct project performance reporting	5	SW	Project Management	ITSWPM517A	Conduct project performance reporting					Yes		
ICTUOC-063D	Direct Adoption	N/A	Conduct source selection and/or contract development	5	SW	Project Management	ITSWPM523A	Conduct source selection and/or contract development	Yes	Yes		Yes			
ICTUOC-064D	Direct Adoption	N/A	Define the organisational structure of a project	5	SW	Project Management	ITSWPM511A	Define the organisational structure of a project					Yes		
ICTUOC-065D	Direct Adoption	N/A	Deliver security services for operations	5	SW	Project Management	ITSWOS521A	Deliver security services for operations	Yes		Yes				

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management	
ICTUOC-066D	Direct Adoption	N/A	Develop information security awareness programme	5	SW	Information Security	ITSWIS509A	Develop information security awareness programme			Yes					
ICTUOC-067D	Direct Adoption	N/A	Develop programme modules of the software based on its design documents	5	SW	Design, Development & Maintenance	ITSWDM504A	Develop programme modules of the software based on its design documents					Yes			
ICTUOC-068D	Direct Adoption	N/A	Develop test plans for various levels of testing	5	SW	Design, Development & Maintenance	ITSWDM507A	Develop test plans for various levels of testing	Yes				Yes			
ICTUOC-069D	Direct Adoption	N/A	Enact information system security audit plan	5	SW	Information Security	ITSWIS513A	Enact information system security audit plan			Yes					
ICTUOC-070D	Direct Adoption	N/A	Ensure availability, integrity and confidentiality of information systems	5	SW	Information Security	ITSWIS508A	Ensure availability, integrity and confidentiality of information systems			Yes	Yes				
ICTUOC-071D	Direct Adoption	N/A	Establish and develop the project team	5	SW	Project Management	ITSWPM513A	Establish and develop the project team					Yes			
ICTUOC-072D	Direct Adoption	N/A	Evaluate and assess effectiveness of corporate information security practices	5	SW	Information Security	ITSWIS507A	Evaluate and assess effectiveness of corporate information security practices			Yes					
ICTUOC-073D	Direct Adoption	N/A	Evaluate and follow up the recommendations in the information system security audit report	5	SW	Information Security	ITSWIS526A	Evaluate and follow up on the recommendations in the information system security audit report			Yes					
ICTUOC-074D	Direct Adoption	N/A	Formulate digital marketing analytics strategy	5	DMT	Marketing Management	108033L5	Formulate digital marketing analytics strategy		Yes						
ICTUOC-075D	Direct Adoption	N/A	Formulate mobile marketing strategy	5	DMT	Marketing Management	108030L5	Formulate mobile marketing strategy		Yes						
ICTUOC-076D	Direct Adoption	N/A	Formulate social media marketing strategy	5	DMT	Marketing Management	108034L5	Formulate social media marketing strategy		Yes						
ICTUOC-077D	Direct Adoption	N/A	Manage digital marketing tactics	5	DMT	Marketing Management	108028L5	Manage digital marketing tactics		Yes						
ICTUOC-078D	Direct Adoption	N/A	Manage project team	5	SW	Project Management	ITSWPM514A	Manage project team					Yes			
ICTUOC-079D	Direct Adoption	N/A	Master the Internet of Things development technology	5	-	-	107218L5 (retail)	Master the Internet of Things development technology	Yes							
ICTUOC-080D	Direct Adoption	N/A	Monitor, control and update project schedule	5	SW	Project Management	ITSWPM504A	Monitor, control and update project schedule	Yes	Yes			Yes			
ICTUOC-081D	Direct Adoption	N/A	Prepare and present forensics investigation report	5	SW	Information Security	ITSWIS518A	Prepare and present forensics investigation report			Yes					
ICTUOC-082D	Direct Adoption	N/A	Review existing security control	5	CIS	Product & Service Life Cycle	ITCSPL528A	Review existing security control	Yes		Yes					
ICTUOC-083D	Direct Adoption	N/A	Security monitoring procedure designing	5	CIS	Product & Service Life Cycle	ITCSPL527A	Security monitoring procedure designing			Yes					

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management	
ICTUOC-084D	Direct Adoption	N/A	Understand key characteristics of embedded software systems	5	SW	Architecture	ITSWAR521A	Understand key characteristics of embedded software systems	Yes							
ICTUOC-085	New	N/A	Appraise Open-source intelligence (OSINT) methodology in the security process	5	SW	Information Security	-	-			Yes					
ICTUOC-086	New	N/A	Appraise the security threats in emerging technologies	5	SW	Information Security	-	-	Yes		Yes	Yes	Yes			
ICTUOC-087	New	N/A	Compare the strengths and weaknesses of different cryptographic algorithms and determine the suitable algorithm for the company operation	5	SW	Information Security	-	-			Yes					
ICTUOC-088	New	N/A	Design and conduct a cyber-attack simulation to evaluate the effectiveness of cyber defenses across different technology layers	5	SW	Information Security	-	-			Yes					
ICTUOC-089	New	N/A	Develop and perform data acquisition and collection processes and conduct pre-processing and exploratory data analysis	5	SW	Data Science	-	-	Yes	Yes						
ICTUOC-090	New	N/A	Develop risk management process for emerging technologies	5	SW	Information Security	-	-			Yes					
ICTUOC-091	New	N/A	Evaluate and acquire appropriate tournament license for an eSports event	5	DMT	Operational Management	-	-		Yes						
ICTUOC-092	New	N/A	Formulate data security and consent policy for emerging technologies	5	SW	Information Security	-	-			Yes	Yes				
ICTUOC-093	New	N/A	Implement algorithms and methods of image processing	5	DMT	Operational Management	-	-					Yes			
ICTUOC-094	New	N/A	Implement changes to procedures and controls designed to enhance the security standard	5	SW	Information Security	-	-			Yes					
ICTUOC-095	New	N/A	Manage and monitor IT service delivery of an eSports event	5	DMT	Operational Management	-	-		Yes						
ICTUOC-096	New	N/A	Manage execution of action plans to ensure safety and security of IT assets	5	SW	Information Security	-	-			Yes					
ICTUOC-097	New	N/A	Manage video streaming and broadcasting.	5	DMT	Operational Management	-	-		Yes						
ICTUOC-098	New	N/A	Perform data loss prevention assessment	5	SW	Information Security	-	-			Yes					
ICTUOC-099	New	N/A	Perform statistical analysis and refine the operational decision-making process	5	SW	Design, Development & Maintenance	-	-						Yes		
ICTUOC-100	Revision	Yes	Analyze the available solutions from IT service providers	4	SW	Project Management	ITSWPM523A	Conduct source selection and/or contract development	Yes	Yes	Yes	Yes	Yes			
ICTUOC-101	Revision	No	Apply diagnostic and troubleshooting skills to solve hardware, software and networking related issues.	4	O&S	System & Hardware	107884L3 107905L3 107906L3	Troubleshoot network issues Troubleshoot client device hardware issues Troubleshoot Operating System issues	Yes	Yes		Yes	Yes			
ICTUOC-102	New	N/A	Apply suitable network development tools in the deployment of secure network system	4	SW	Information Security	-	-			Yes					
ICTUOC-103	Revision	No	Define user requirements	4	SW	Generic Skills	ITSWG512A	Communicate (oral and written) technical information	Yes	Yes		Yes	Yes			
ICTUOC-104	Revision	Yes	Implementing monitoring equipment to monitor infrastructure failure and security breaches	4	CIS	Network Infrastructure	ITCSNO431A	Implementing monitoring equipment to monitor infrastructure failure and security breaches	Yes		Yes					

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management
ICTUOC-105	Revision	No	Install and configuration of internet server application	4	O&S	Network Support	107882L3	Install and configure client/server application	Yes	Yes		Yes			
ICTUOC-106	Revision	Yes	Manage network infrastructure performance	4	CIS	Network Infrastructure	108058L3 ITCSNO418A	Monitor performance of digital media infrastructure Analysing performance reports	Yes	Yes					
ICTUOC-107	New	No	Perform application security assessment for the organisation	4	SW	Information Security	-	-			Yes				
ICTUOC-108	Revision	Yes	Perform installation, configuration and testing of network equipment and devices	3	CIS	Network Infrastructure and Operation	ITCSNO306A	Perform installation, configuration and testing of network equipment	Yes						
ICTUOC-109	Revision	Yes	Perform network testing	4	CIS	Network Infrastructure and Operation	ITCSNO424A	Perform network testing	Yes						
ICTUOC-110	Revision	Yes	Prepare system operation documentation	4	SW	Project Management	ITSWPM403A	Establish project communications documentation requirements	Yes			Yes	Yes		
ICTUOC-111	Revision	Yes	Verify and validate that the deployed / migrated software and the existing software are functioning properly	4	SW	Design, Development & Maintenance	ITSWDM405A	Verify and validate that the deployed/migrated software and the existing software are functioning properly in the context of deploying and migrating software				Yes	Yes	Yes	
ICTUOC-112D	Direct Adoption	N/A	Apply encryption technology to send data	4	-	-	107233L4 (retail e-business)	Apply encryption technology to send data	Yes		Yes				
ICTUOC-113D	Direct Adoption	N/A	Conduct drills according to response and recovery plans	4	SW	Information Security	ITSWIS406A	Conduct drills according to response and recovery plans	Yes		Yes		Yes		
ICTUOC-114D	Direct Adoption	N/A	Create digital character animation	4	DMT	Operational Management	107946L4	Create digital character animation		Yes					
ICTUOC-115D	Direct Adoption	N/A	Create digital visual effects	4	DMT	Operational Management	107964L4	Create digital visual effects		Yes					
ICTUOC-116	Revision	Yes	Create motion graphics	4	DMT	Operational Management	107944L4	Create motion graphics		Yes					
ICTUOC-117D	Direct Adoption	N/A	Design animation visual effects	4	DMT	Operational Management	107947L4	Design animation visual effects		Yes					
ICTUOC-118D	Direct Adoption	N/A	Develop infrastructure performance testing	4	DMT	Operational Management	108055L4	Develop infrastructure performance testing		Yes					
ICTUOC-119D	Direct Adoption	N/A	Ensure information security procedures and guidelines support information security policies	4	SW	Information Security	ITSWIS402A	Ensure information security procedures and guidelines support information security policies			Yes	Yes			
ICTUOC-120D	Direct Adoption	N/A	Maintain the security control documents	4	SW	Information Security	ITSWOS418A	Maintain the security control documents			Yes				
ICTUOC-121D	Direct Adoption	N/A	Perform enhancement of digital video	4	DMT	Operational Management	107968L4	Perform enhancement of digital video		Yes					
ICTUOC-122D	Direct Adoption	N/A	Perform game programming	4	DMT	Operational Management	107935L4	Perform game programming		Yes					
ICTUOC-123D	Direct Adoption	N/A	Perform script programming	4	DMT	Operational Management	107936L4	Perform script programming		Yes				Yes	
ICTUOC-124	Revision	Yes	Perform system testing against user, technical and hosting requirements	4	SW	Design, Development & Maintenance	ITSWDM401A	Perform testing activities to facilitate different levels of testing	Yes	Yes		Yes		Yes	
ICTUOC-125D	Direct Adoption	N/A	Plan direct digital marketing	4	DMT	Marketing Management	108041L4	Plan direct digital marketing		Yes					

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management
ICTUOC-126D	Direct Adoption	N/A	Support and implement information security practices and procedures	4	SW	Information Security	ITSWIS404A	Support and implement information security practices and procedures			Yes	Yes			
ICTUOC-127D	Direct Adoption	N/A	Utilise compression techniques and CODEC for digital media production	3	DMT	Operational Management	108009L3	Utilise compression techniques and CODEC for digital media production		Yes					
ICTUOC-128	New	N/A	Analyse the performance, latency and accessibility of systems	4	SW	Architecture	-	-	Yes	Yes		Yes			
ICTUOC-129	New	N/A	Analyze the technical requirements of setting up an streaming framework	4	DMT	Operational Management	-	-		Yes					
ICTUOC-130	New	N/A	Carry out live streaming with various audio and visual compoents	4	DMT	Operational Management	-	-		Yes					
ICTUOC-131	New	N/A	Carry out the first line of communication for triggering client response and alert internal security teams	4	SW	Information Security	-	-			Yes				
ICTUOC-132	New	N/A	Maintain security files by receiving, processing and filing the system data	4	SW	Information Security	-	-			Yes				
ICTUOC-133	New	N/A	Manage organization resources for implementation across multiple processing environment	4	SW	Generic Skills	-	-				Yes			
ICTUOC-134	New	N/A	Monitor and perform the system security access checking	3	SW	Information Security	-	-			Yes				
ICTUOC-135	New	N/A	Setup the online streaming platform and application	4	DMT	Operational Management	-	-		Yes					
ICTUOC-136	Revision	Yes	Prepare for live video and audio capture	3	DMT	Operational Management	107970L3	Prepare for digital video capture		Yes					
ICTUOC-137	Revision	Yes	Record problem/fault reports	2	O&S	System & Hardware	ITCSNO207A	Record problem/fault reports	Yes						
ICTUOC-138D	Direct Adoption	N/A	Administer basic network security	3	O&S	Security	107887L3	Administer basic network security	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-139D	Direct Adoption	N/A	Administer perimeter firewall	3	O&S	Security	107890L3	Administer perimeter firewall	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-140D	Direct Adoption	N/A	Administer system security	3	O&S	Security	107888L3	Administer system security	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-141D	Direct Adoption	N/A	Apply texture	3	DMT	Operational Management	107953L3	Apply texture		Yes					
ICTUOC-142D	Direct Adoption	N/A	Carry out functional testing	3	CIS	Product & Service Life Cycle	ITCSPL326A	Carry out functional testing			Yes				
ICTUOC-143D	Direct Adoption	Yes	Configure WAN connection	3	O&S	Network	107883L3	Configure WAN connection	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-144D	Direct Adoption	N/A	Create character model	3	DMT	Operational Management	107952L3	Create character model		Yes					
ICTUOC-145D	Direct Adoption	N/A	Create environment for digital animation	3	DMT	Operational Management	107955L3	Create environment for digital animation		Yes					
ICTUOC-146D	Direct Adoption	N/A	Perform lighting	3	DMT	Operational Management	107954L3	Perform lighting		Yes					
ICTUOC-147D	Direct Adoption	Yes	Perform remote support	3	O&S	Core Skills	107907L3	Perform remote support	Yes	Yes	Yes		Yes	Yes	

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ICTUOC-148D	Direct Adoption	N/A	Perform rendering of animation	3	DMT	Operational Management	107956L3	Perform rendering of animation		Yes						
ICTUOC-149D	Direct Adoption	N/A	Produce basic 2D animation	3	DMT	Operational Management	107960L3	Produce basic 2D animation		Yes						
ICTUOC-150D	Direct Adoption	N/A	Produce basic 3D animation	3	DMT	Operational Management	107961L3	Produce basic 3D animation		Yes						
ICTUOC-151D	Direct Adoption	N/A	Synchronise digital audio with video	3	DMT	Operational Management	107971L3	Synchronise digital audio with video		Yes						
ICTUOC-152	New	N/A	Understand general security and network security features on various types of platforms	3	SW	Information Security	-	-	Yes		Yes	Yes				
ICTUOC-153D	Direct Adoption	N/A	Provide support to users	2	O&S	Core Skills	107867L2	Provide support to users	Yes		Yes	Yes				
ICTUOC-154D	Direct Adoption	N/A	Understand the principle of data protection	1	O&S	Security	107864L1	Understand the principle of data protection	Yes							
ICTUOC-155	Revision	Yes	Formulate global and local business strategies	6	SW	Strategic Management	108015L7 ITCSSG503A ITCSSG602A	Formulate global and local business strategy Formulate global and local marketing strategies Define business strategies and policies								Yes
ICTUOC-156	Revision	Yes	Formulate strategies on business relation management	6	SW	Strategic Management	ITSWG618A ITCSSG508A ITCSSG521A	Manage and maintain the portfolio and relationship with business partners Formulate partner/supplier relationship strategies Manage and maintain the portfolio and relationship with business partners								Yes
ICTUOC-157	Revision	Yes	Formulate human resource strategy	6	SW	Strategic Management	108021L5 ITCSSG606A	Formulate human resource strategy Formulate human resource strategies								Yes
ICTUOC-158	Revision	Yes	Formulate vision and mission statements	6	SW	Strategic Management	ITSWM601A ITCSSG601A	Formulate vision and mission statements Formulate vision and mission statements								Yes
ICTUOC-159	Revision	Yes	Establish and implement information management and control policy	6	SW	Strategic Management	ITSWM611A ITSWM506A 108022L5	Set policy to control data security and privacy Collect and distribute disseminate information Manage information strategy to facilitate product development and marketing								Yes
ICTUOC-160	Revision	Yes	Manage marketing and public relation plans	5	SW	Strategic Management	ITSWM508A ITCSSG403A	Manage product/services brand through the use of IT Implement Public Relation Plans								Yes
ICTUOC-161	Revision	Yes	Establish contingency and risk mitigation plans	5	SW	Strategic Management	ITSWG609A ITCSSG501A ITCSSG512A	Develop business continuity plans and disaster recovery plans related to IT Formulate risk mitigation strategies and plans Develop business continuity and disaster recovery plans								Yes
ICTUOC-162	New	N/A	Develop marketing and public relation plans	6	SW	Strategic Management	-	-								Yes
ICTUOC-163	New	N/A	Develop compliance framework for the meeting of ethical and regulatory requirements related to enterprise data	6	SW	Data Science	-	-							Yes	
ICTUOC-164	New	N/A	Define data classification policy for enterprise	6	SW	Data Science	-	-							Yes	
ICTUOC-165	New	N/A	Enforce enterprise data standards for business needs	6	SW	Data Science	-	-							Yes	
ICTUOC-166	New	N/A	Understand the use of data concepts and topologies	6	SW	Data Science	-	-							Yes	
ICTUOC-167	New	N/A	Identify and evaluate the data sources to fulfil the data requirements in support of business objectives	6	SW	Data Science	-	-							Yes	
ICTUOC-168	New	N/A	Manage and implement different data acquisition options for the identified internal or external sources	6	SW	Data Science	-	-							Yes	

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management
ICTUOC-169	Revision	Yes	Define and establish the data architectures	6	SW	Data Science	ITSWAR610A	Define and establish a data architectures						Yes	
ICTUOC-170	Revision	Yes	Check usability of a target data architecture	6	SW	Data Science	ITSWAR612A	Check usability of a target data architecture						Yes	
ICTUOC-171	New	N/A	Conduct and review pre-processing and transformation of the data with data quality assessment	6	SW	Data Science	N/A	N/A						Yes	
ICTUOC-172	New	N/A	Appraise and select the appropriate data management tools and services to manage the target data based on different requirements	6	SW	Data Science	N/A	N/A						Yes	
ICTUOC-173	Revision	No	Design and develop data management tools and services to manage the target data based on different requirements	6	SW	Data Science	ITSWDM501A	Formulate, analyse, and develop requirements for the development of software products / services	Yes					Yes	
ICTUOC-174	Revision	No	Perform the data management processes using the identified tools	6	SW	Data Science	ITSWOS413A	Deliver the database operations services						Yes	
ICTUOC-175	New	N/A	Appraise, select and integrate the appropriate data analytics and/or modelling solutions to perform the data analytics process based on different requirements	6	SW	Data Science	-	-						Yes	
ICTUOC-176	New	N/A	Build the analytics solutions/models to support better business decisions and improve performance	6	SW	Data Science	-	-						Yes	
ICTUOC-177	New	N/A	Perform model training, testing and validation in evaluating and optimising the model based on various metrics	6	SW	Data Science	-	-						Yes	
ICTUOC-178	Revision	No	Plan and develop the analytics and modeling tools	6	SW	Data Science	1. ITSWSM503A 2. ITSWDM504A	1. Formulate IT plans 2. Develop programme modules of the software based on its design documents	Yes					Yes	
ICTUOC-179	New	N/A	Understanding the use of data visualisation and the factors in selecting and using various data visualisation tools	6	SW	Data Science	-	-						Yes	
ICTUOC-180	New	N/A	Appraise the various data visualisation tools and select the appropriate tools according to user requirements	6	SW	Data Science	-	-						Yes	
ICTUOC-181	Revision	No	Plan and develop the customised visualisation tools based on the business requirements	6	SW	Data Science	1. ITSWSM503A 2. ITSWDM504A	1. Formulate IT plans 2. Develop programme modules of the software based on its design documents						Yes	
ICTUOC-182	New	N/A	Understand and utilize the preset data visualisation dashboard/displays tools	4	SW	Data Science	-	-						Yes	
ICTUOC-183	New	N/A	Develop clear and actionable recommendations based on the analysis results to the stakeholders for decision support	6	SW	Data Science	-	-						Yes	
ICTUOC-184	New	N/A	Keep awareness towards autonomous decision making process on the impact of business	6	SW	Data Science	-	-						Yes	
ICTUOC-185	New	N/A	Perform and evaluate the autonomous decision making process	6	SW	Data Science	-	-						Yes	
ICTUOC-186D	Direct Adoption	N/A	Lead and motivate a team	6	SW	Generic Skills	ITSWG604A	Lead and motivate a team	Yes			Yes			Yes

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management
ICTUOC-187D	Direct Adoption	N/A	Delegate responsibilities	6	SW	Generic Skills	ITSWG606A	Delegate responsibilities	Yes			Yes			Yes
ICTUOC-188D	Direct Adoption	N/A	Manage changes	6	SW	Generic Skills	ITSWG613A	Manage changes	Yes			Yes			Yes
ICTUOC-189D	Direct Adoption	N/A	Ensure operable application integration architecture is in place	5	SW	Architecture	ITSWAR516A	Ensure operable application integration architecture is in place				Yes			
ICTUOC-190D	Direct Adoption	N/A	Manage application integration architecture life cycle	5	SW	Architecture	ITSWAR517A	Manage application integration architecture life cycle				Yes			
ICTUOC-191D	Direct Adoption	N/A	Manage the day-to-day operations of service delivery	4	SW	Operation & Support	ITSWOS421A	Manage the day-to-day operations of service delivery				Yes			
ICTUOC-192D	Direct Adoption	N/A	Monitor and control project execution	6	SW	Project Management	ITSWPM605A	Monitor and control project execution	Yes						
ICTUOC-193D	Direct Adoption	N/A	Manage the execution of a project quality management plan	5	SW	Project Management	ITSWPM509A	Manage the execution of a project quality management plan	Yes						
ICTUOC-194D	Direct Adoption	N/A	Perform inspection for the programme code and software documents	6	SW	Design, Development & Maintenance	ITSWDM506A	Perform inspection for the programme code and software documents	Yes						
ICTUOC-195D	Direct Adoption	N/A	Manage and maintain the programme source	5	SW	Design, Development & Maintenance	ITSWDM505A	Manage and maintain the programme source	Yes						
ICTUOC-196D	Direct Adoption	N/A	Install and configure client/server application	3	O&S	Network Support	107882L3	Install and configure client/server application	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-197D	Direct Adoption	N/A	Troubleshoot network issues	3	O&S	Network Support	107884L3	Troubleshoot network issues	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-198D	Direct Adoption	N/A	Administer basic website security	3	O&S	Security Support	107889L3	Administer basic website security	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-199D	Direct Adoption	N/A	Strengthen workstation protection	3	O&S	Security Support	107891L3	Strengthen workstation protection	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-200D	Direct Adoption	N/A	Create and maintain user accounts on server	2	O&S	Security Support	107885L2	Create and maintain user accounts on server	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-201D	Direct Adoption	N/A	Configure user access control on server	3	O&S	Security Support	107886L3	Configure user access control on server	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-202D	Direct Adoption	N/A	Troubleshoot web browser and connection issues	3	O&S	Web Support	107909L3	Troubleshoot web browser and connection issues	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-203D	Direct Adoption	N/A	Maintain website performance	3	O&S	Web Support	107910L3	Maintain website performance	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-204D	Direct Adoption	N/A	Build simple web site using content	3	O&S	Web Support	107911L3	Build simple web site using content	Yes	Yes	Yes	Yes	Yes	Yes	
ICTUOC-205D	Direct Adoption	N/A	Maintain website	3	O&S	Web Support	107912L3	Maintain website	Yes	Yes	Yes	Yes	Yes	Yes	

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									IoT	eSports Technology	Information Security	Cloud	AI/ML	Data Science	Strategic Management
ICTUOC-206D	Direct Adoption	N/A	Maintain inventories of equipment / software	1	O&S	System & Hardware Support	107892L1	Maintain inventories of equipment / software	Yes			Yes			
ICTUOC-207D	Direct Adoption	N/A	Restore system or file from backups	2	O&S	System & Hardware Support	107897L2	Restore system or file from backups	Yes			Yes			
ICTUOC-208D	Direct Adoption	N/A	Monitor server system status	2	O&S	System & Hardware Support	107898L2	Monitor server system status	Yes			Yes			
ICTUOC-209D	Direct Adoption	N/A	Provide help desk support	2	O&S	System & Hardware Support	107899L2	Provide help desk support	Yes			Yes			
ICTUOC-210D	Direct Adoption	N/A	Perform system backup	2	O&S	System & Hardware Support	107901L2	Perform system backup	Yes			Yes			
ICTUOC-211D	Direct Adoption	N/A	Perform simple webpage update	2	O&S	System & Hardware Support	107908L2	Perform simple webpage update	Yes			Yes			
ICTUOC-212D	Direct Adoption	N/A	Provide support to mobile device users	3	O&S	System & Hardware Support	107904L3	Provide support to mobile device users	Yes	Yes	Yes		Yes	Yes	
ICTUOC-213D	Direct Adoption	N/A	Troubleshoot client device hardware issues	3	O&S	System & Hardware Support	107905L3	Troubleshoot client device hardware issues	Yes	Yes	Yes		Yes	Yes	
ICTUOC-214D	Direct Adoption	N/A	Build a small wireless LAN	2	O&S	Network Support	107879L2	Build a small wireless LAN			Yes		Yes	Yes	
ICTUOC-215D	Direct Adoption	N/A	Install and configure network	2	O&S	Network Support	107880L2	Install and configure network			Yes		Yes	Yes	
ICTUOC-216D	Direct Adoption	N/A	Strengthen workstation protection	3	O&S	Network Support	107891L3	Strengthen workstation protection			Yes		Yes	Yes	
ICTUOC-217D	Direct Adoption	N/A	Troubleshoot web browser and connection issues	3	O&S	Network Support	107909L3	Troubleshoot web browser and connection issues			Yes		Yes	Yes	
No. of UoCs involved:									81	75	81	64	56	55	19