

Appendix A

Information and Communications Technology (ICT) Training Package Update - Training Products

Note: Scoping review and recommendations will confirm complete scope

Qualifications in scope

Code	Title
ICT20120	Certificate II in Applied Digital Technologies
ICT30120	Certificate III in Information Technology
ICT40120	Certificate IV in Information Technology
ICT50220	Diploma of Information Technology
ICT60220	Advanced Diploma of Information Technology

Units of Competency in scope

Code	National Title
ICTAI1401	Identify opportunities to apply artificial intelligence, machine learning and deep learning
ICTAI1501	Automate work tasks using machine learning
ICTAI1502	Train and evaluate machine learning models
ICTAI1503	Build natural language processing models and pipelines
ICTAUT401	Design business process automation solutions
ICTAUT402	Apply robotic desktop automation
ICTAUT403	Conduct software quality assurance testing
ICTAUT501	Manage robotic process automation
ICTAUT502	Evaluate automated industrial manufacturing processes
ICTCLD301	Evaluate characteristics of cloud computing solutions and services
ICTCLD401	Configure cloud services
ICTCLD501	Develop cloud disaster recovery plans
ICTCLD502	Design and implement highly-available cloud infrastructure
ICTCLD503	Implement web-scale cloud infrastructure

ICTCLD504	Improve cloud-based infrastructure
ICTCLD505	Implement cloud infrastructure with code
ICTCLD506	Implement virtual network in cloud environments
ICTCLD507	Build and deploy resources on cloud platforms
ICTCLD508	Manage infrastructure in cloud environments
ICTCLD509	Manage cloud identity and access
ICTCLD510	Manage cloud threat detection systems
ICTCLD511	Protect cloud infrastructure and data
ICTCLD512	Respond to cloud security incidents
ICTCLD513	Develop cloud-based microservices architecture using containers
ICTCLD514	Create and test cloud-based serverless applications
ICTCLD515	Build and deploy cloud-based applications using CI and CD pipelines
ICTCLD601	Develop cloud computing strategies for businesses
ICTCLD602	Manage information security compliance of cloud service deployment
ICTCLD603	Design hybrid cloud-based network architectures
ICTCLD604	Manage data in cloud environments
ICTCYS401	Design and implement network security infrastructure for an organisation
ICTCYS402	Identify and confirm cyber security incidents
ICTCYS403	Plan and implement information security strategies for an organisation
ICTCYS404	Run vulnerability assessments for an organisation
ICTCYS405	Develop cyber security incident response plans
ICTCYS406	Respond to cyber security incidents
ICTCYS407	Gather, analyse and interpret threat data
ICTCYS408	Research and source cryptocurrency technologies for organisational needs
ICTCYS601	Create cyber security standards for organisations
ICTCYS602	Implement cyber security operations
ICTCYS603	Undertake penetration testing for organisations
ICTCYS604	Implement best practices for identity management
ICTCYS606	Evaluate an organisation's compliance with cyber security standards and law
ICTCYS607	Acquire digital forensic data

ICTCYS608	Perform cyber security risk assessments
ICTCYS609	Evaluate threats and vulnerabilities of IoT devices
ICTCYS610	Protect critical infrastructure for organisations
ICTCYS611	Configure security devices for organisations
ICTCYS612	Design and implement virtualised cyber security infrastructure for organisations
ICTCYS613	Utilise design methodologies for security architecture
ICTCYS614	Analyse cyber security insider risks and threats and devise recommendations
ICTCYS615	Detect and respond to cyber security insider risks and threats
ICTDAT401	Evaluate organisational compliance with data ethics legislation
ICTDAT402	Clean and verify data
ICTDAT501	Gather, analyse and verify data from different source inputs
ICTDAT502	Conduct significance tests
ICTDAT503	Use unsupervised learning for clustering
ICTDAT601	Develop data integration strategies
ICTDAT602	Review data lifecycles
ICTDAT603	Assess advanced data processes
ICTDBS407	Monitor physical database implementation
ICTDBS413	Determine database requirements
ICTDBS414	Complete database backup and restore
ICTDBS415	Build a database
ICTDBS416	Create basic relational databases
ICTDBS417	Identify and resolve common database performance problems
ICTDBS418	Monitor and administer databases
ICTDBS503	Create a data warehouse
ICTDBS505	Monitor and improve knowledge management systems
ICTDBS506	Design databases
ICTDBS507	Integrate databases with websites
ICTDBS604	Build data warehouses
ICTDBS605	Develop knowledge management strategies
ICTDBS606	Determine database functionality and scalability

ICTDMT404	Create visual design components for digital media
ICTDMT405	Produce interactive animations
ICTDMT406	Produce and edit digital images
ICTDMT407	Incorporate video assets into media presentations
ICTDSN401	Design digital user interfaces
ICTDSN402	Develop digital user interfaces
ICTDSN403	Apply innovative thinking and practices in digital environments
ICTGAM304	Develop three-dimensional (3D) models for digital games
ICTGAM305	Apply simple textures and shading to three-dimensional (3D) models for digital games
ICTGAM306	Review and apply traditional animation principles
ICTGAM418	Use simple modelling for animation
ICTGAM420	Produce interactive games
ICTGAM421	Identify and apply games design and game play principles
ICTGAM422	Create design documents for interactive games
ICTGAM423	Apply artificial intelligence in game development
ICTGAM424	Develop story and content in digital games
ICTGAM425	Create visual design components in interactive games
ICTGAM426	Write narrative scripts for interactive games
ICTGAM427	Use 3-D software interface and toolsets
ICTGAM428	Create 3-D characters for interactive games
ICTGAM429	Develop 3-D components for interactive games
ICTGAM430	Design interactive media
ICTGAM431	Design and create 3-D digital models
ICTGAM432	Create audio for digital games
ICTGAM433	Prepare and complete image rendering processes
ICTGAM532	Create design concepts for digital games and 3-D media
ICTGAM533	Create complex 3-D interactive games
ICTGAM534	Manage interactive media productions
ICTGAM535	Develop complex 3-D software for games and interactive media

ICTGAM536	Design interactive 3-D applications for scientific and mathematical modelling
ICTGAM537	Prepare games for different platforms and delivery modes
ICTGAM538	Manage testing of games and interactive media
ICTGAM539	Create and implement designs for 3-D games environments
ICTGAM540	Design and create models for 3-D and digital effects environments
ICTGAM541	Design and create advanced particles, fluids and bodies for 3-D digital effects
ICTGAM542	Animate 3-D characters for digital games
ICTGAM543	Produce digital animation sequences
ICTGAM544	Animate physical attributes of models and elements
ICTGAM545	Manage technical art and rigging in 3-D animations
ICTGAM546	Create and combine 3-D digital games and components
ICTGAM547	Create interactive 3-D environments for digital games
ICTGAM548	Complete digital editing for 3-D and digital effects environments
ICTGAM549	Collaborate in design of 3-D game levels and environments
ICTGAM550	Integrate multiple data sources into interactive 3-D environments
ICTGAM551	Apply digital texturing for the 3-D environment in digital games
ICTGAM552	Create complex 3-D characters for games
ICTGAM553	Integrate database with online games
ICTGAM554	Create games for mobile devices
ICTGAM555	Analyse business opportunities in the digital games environments
ICTGAM556	Develop and implement physics in 3-D digital games
ICTGAM557	Complete compositing to create elements for 3-D and digital effects environments
ICTICT206	Install software applications
ICTICT213	Use computer operating systems and hardware
ICTICT214	Operate application software packages
ICTICT215	Operate digital media technology packages
ICTICT216	Design and create basic organisational documents
ICTICT219	Interact and resolve queries with ICT clients
ICTICT221	Identify and use specific industry standard technologies
ICTICT222	Research and share ICT solutions for Indigenous users

ICTICT223	Install software applications
ICTICT224	Integrate commercial computing packages
ICTICT225	Operate accounting applications
ICTICT226	Operate simple database applications
ICTICT309	Create ICT user documentation
ICTICT310	Identify and use industry specific technologies
ICTICT311	Customise packaged software applications
ICTICT312	Use advanced features of applications
ICTICT313	Identify IP, ethics and privacy policies in ICT environments
ICTICT314	Connect internal hardware components
ICTICT315	Implement system software changes
ICTICT316	Implement new technology
ICTICT317	Maintain standard operating environments
ICTICT318	Validate test cases and develop proof of concepts
ICTICT424	Address cyber security requirements
ICTICT425	Implement WHS, environmental sustainability and anti-discrimination practices in an ICT workplace
ICTICT426	Identify and evaluate emerging technologies and practices
ICTICT427	Identify, evaluate and apply current industry-specific technologies to meet organisational needs
ICTICT428	Select cloud storage solutions
ICTICT429	Determine and confirm client business requirements
ICTICT430	Apply software development methodologies
ICTICT431	Use online tools for learning
ICTICT432	Develop detailed technical design
ICTICT433	Build graphical user interfaces
ICTICT434	Maintain website information standards
ICTICT435	Create technical documentation
ICTICT436	Develop macros and templates for clients using standard products
ICTICT437	Conduct post-implementation ICT system reviews
ICTICT438	Select, configure and deploy software and hardware testing tools

ICTICT440	Develop service level agreements
ICTICT441	Provide one-to-one instructions
ICTICT443	Work collaboratively in the ICT industry
ICTICT444	Develop client user interfaces
ICTICT445	Connect and configure devices and hardware components
ICTICT446	Apply ICT service management principles
ICTICT447	Work effectively in agile environments
ICTICT448	Prepare electronic portfolios of work
ICTICT449	Use version control systems in development environments
ICTICT450	Identify and use applications for a distributed ledger
ICTICT451	Comply with IP, ethics and privacy policies in ICT environments
ICTICT452	Support the implementation of assistive technologies
ICTICT453	Evaluate accessibility of organisational systems, programs and software
ICTICT454	Assess organisational systems using assistive technologies
ICTICT517	Match ICT needs with the strategic direction of the organisation
ICTICT518	Research and review hardware technology options for organisations
ICTICT519	Develop detailed component specifications from project specifications
ICTICT520	Confirm transition strategy for new systems
ICTICT521	Select new technology supported business model
ICTICT522	Evaluate vendor products and equipment
ICTICT523	Gather data to identify business requirements
ICTICT524	Determine ICT strategies and solutions for organisations
ICTICT525	Identify and manage the implementation of industry specific technologies
ICTICT526	Verify client business requirements
ICTICT527	Develop and maintain blockchain solutions
ICTICT528	Deploy smart contracts
ICTICT529	Organise and lead agile projects
ICTICT530	Design user experience solutions
ICTICT531	Test network using virtual instruments
ICTICT532	Apply IP, ethics and privacy in ICT environments

ICTICT533	Conduct quality audit of IT system design specifications
ICTICT608	Interact with clients on a business level
ICTICT611	Develop ICT strategic business plans
ICTICT612	Develop contracts and manage contract performance
ICTICT613	Manage the use of development methodologies
ICTICT614	Identify and implement business innovation
ICTICT615	Implement knowledge management strategies
ICTICT616	Develop communities of practice
ICTICT617	Lead the evaluation and implementation of current industry specific technologies
ICTICT618	Manage IP, ethics and privacy in ICT environments
ICTICT818	Develop knowledge management strategies
ICTICT819	Lead analysis of information and communications technology business strategy
ICTICT822	Manage automated ICT system applications
ICTIOT501	Install IoT devices and networks
ICTIOT502	Program IoT devices
ICTIOT503	Design and test IoT devices and networks
ICTNPL412	Apply business acumen to network planning
ICTNPL413	Evaluate networking regulations and legislation for the telecommunications industry
ICTNWK307	Provide network systems administration
ICTNWK308	Determine and action network problems
ICTNWK309	Configure and administer network operating systems
ICTNWK310	Administer network peripherals
ICTNWK311	Install and test network protocols
ICTNWK420	Install and configure virtual machines
ICTNWK421	Install, configure and test network security
ICTNWK422	Install and manage servers
ICTNWK423	Manage network and data integrity
ICTNWK424	Install and operate small enterprise branch networks
ICTNWK425	Build small wireless local area networks

ICTNWK426	Install and configure client-server applications and services
ICTNWK427	Configure desktop environments
ICTNWK428	Create scripts for networking
ICTNWK429	Install hardware to networks
ICTNWK430	Deploy software to networked computers
ICTNWK431	Create network documentation
ICTNWK432	Build an enterprise wireless network
ICTNWK433	Install backbone technologies in a local area network
ICTNWK434	Identify and implement industry standard virtualisation technologies
ICTNWK435	Create secure virtual private networks
ICTNWK529	Install and manage complex ICT networks
ICTNWK536	Plan, implement and test enterprise communication solutions
ICTNWK537	Implement secure encryption technologies
ICTNWK538	Install and maintain valid authentication processes
ICTNWK539	Design and implement integrated server solutions
ICTNWK540	Design, build and test network servers
ICTNWK541	Configure, verify and troubleshoot WAN links and IP services
ICTNWK542	Install, operate and troubleshoot medium enterprise routers
ICTNWK543	Install, operate and troubleshoot medium enterprise switches
ICTNWK544	Design and implement a security perimeter for ICT networks
ICTNWK545	Develop, implement and evaluate systems and applications security
ICTNWK546	Manage network security
ICTNWK547	Manage system security on operational systems
ICTNWK548	Model preferred system solutions
ICTNWK549	Design ICT security frameworks
ICTNWK550	Design ICT system security controls
ICTNWK551	Build decks using wireless markup language
ICTNWK552	Install and configure network access storage devices
ICTNWK553	Configure enterprise virtual computing environments
ICTNWK554	Manage enterprise virtual computing environments

ICTNWK555	Determine best-fit topologies for local networks
ICTNWK556	Identify and resolve network problems
ICTNWK557	Configure and manage advanced virtual computing environments
ICTNWK558	Monitor and troubleshoot virtual computing environments
ICTNWK559	Install an enterprise virtual computing environment
ICTNWK560	Determine best-fit topologies for wide area networks
ICTNWK561	Design enterprise wireless local area networks
ICTNWK562	Configure internet gateways
ICTNWK612	Plan and manage troubleshooting advanced integrated IP networks
ICTNWK615	Design and configure desktop virtualisation
ICTNWK618	Design and implement a security system
ICTNWK619	Plan, configure and test advanced server-based security
ICTNWK620	Design and implement wireless network security
ICTNWK621	Configure network devices for a secure network infrastructure
ICTNWK622	Configure and manage intrusion prevention system on network sensors
ICTNWK623	Manage ICT security
ICTNWK624	Configure advanced internetwork routing solutions
ICTNWK625	Plan and configure advanced internetwork switching solutions
ICTNWK627	Implement voice applications over secure wireless networks
ICTNWK628	Design and build integrated VoIP networks
ICTNWK629	Configure and manage storage area networks
ICTOPN507	Plan and configure dense wavelength division multiplexing optical networks
ICTOPN508	Perform acceptance and commissioning tests on optical networks
ICTOPN509	Plan for optical system upgrades
ICTOPN510	Test and commission dense wavelength division multiplexing transmission systems
ICTOPN511	Test performance of specialised optical devices
ICTOPN512	Analyse and integrate specialised optical devices
ICTOPN605	Manage optical ethernet transmission
ICTOPN606	Manage dense wavelength division multiplexing transmission systems

ICTOPN607	Design dense wavelength division multiplexing systems
ICTOPN608	Analyse optical transmission systems
ICTPMG301	Contribute as part of an IT project management team
ICTPMG402	Schedule installation of customer premises equipment
ICTPMG411	Support small scale ICT projects
ICTPMG505	Manage ICT projects
ICTPMG506	Prepare network project briefs
ICTPMG612	Manage ICT project initiation
ICTPMG613	Manage ICT project planning
ICTPMG614	Manage ICT project delivery
ICTPMG615	Manage ICT project closure
ICTPMG616	Manage ICT project systems implementation
ICTPMG617	Plan and direct complex ICT projects
ICTPRG302	Apply introductory programming techniques
ICTPRG429	Maintain open-source code programs
ICTPRG430	Apply introductory object-oriented language skills
ICTPRG431	Apply query language in relational databases
ICTPRG432	Develop data-driven applications
ICTPRG433	Test software developments
ICTPRG434	Automate processes
ICTPRG435	Write scripts for software applications
ICTPRG436	Develop mobile applications
ICTPRG437	Build a user interface
ICTPRG438	Configure and maintain databases
ICTPRG439	Use pre-existing components
ICTPRG440	Apply introductory programming skills in different languages
ICTPRG441	Apply skills in object-oriented design
ICTPRG442	Apply mathematical techniques for software development
ICTPRG443	Apply intermediate programming skills in different languages
ICTPRG444	Analyse software requirements

ICTPRG446	Prepare software development review
ICTPRG447	Use extensible markup language
ICTPRG530	Manage projects using software management tools
ICTPRG531	Prepare for application development using current methods
ICTPRG532	Apply advanced object-oriented language skills
ICTPRG533	Debug and monitor applications
ICTPRG534	Deploy applications to production environments
ICTPRG535	Build advanced user interfaces
ICTPRG536	Design application architecture
ICTPRG537	Implement security for applications
ICTPRG538	Create mashups
ICTPRG540	Maintain custom software
ICTPRG541	Monitor and support data conversion to new ICT systems
ICTPRG542	Review developed software
ICTPRG543	Develop integration blueprint for ICT systems
ICTPRG544	Install, test and evaluate pilot version of ICT systems
ICTPRG545	Monitor system pilots
ICTPRG546	Validate application designs against specifications
ICTPRG547	Apply advanced programming skills in another language
ICTPRG548	Develop high-level object-oriented class specifications
ICTPRG549	Apply intermediate object-oriented language skills
ICTPRG550	Perform ICT data conversions
ICTPRG551	Apply testing techniques for software development
ICTPRG553	Create and develop REST APIs
ICTPRG554	Manage data persistence using noSQL data stores
ICTPRG555	Implement Object Relational Mapping Framework for data persistence
ICTPRG556	Implement and use a model view controller framework
ICTPRG557	Develop applications using agile methods
ICTPRG603	Develop advanced mobile multi-touch applications
ICTPRG605	Manage development of technical solutions from business specifications

ICTPRG614	Create cloud computing services
ICTRFN504	Test cellular handset enhancements and international roaming agreements
ICTRFN506	Evaluate radio frequency signal coverage plots
ICTRFN603	Monitor the capacity of and recommend changes to cellular mobile networks
ICTRFN804	Produce radio link budgets
ICTRFN805	Analyse cellular mobile network systems
ICTRFN806	Analyse satellite communications systems
ICTSAD402	Develop and present ICT feasibility reports
ICTSAD501	Model data objects
ICTSAD502	Model data processes
ICTSAD507	Design and implement quality assurance processes for business solutions
ICTSAD508	Develop technical requirements for business solutions
ICTSAD509	Produce ICT feasibility reports
ICTSAD510	Manage risks when implementing new technologies
ICTSAD604	Manage and communicate ICT solutions
ICTSAD608	Perform ICT-focused enterprise analysis
ICTSAD609	Plan and monitor business analysis activities in an ICT environment
ICTSAD610	Analyse stakeholder requirements
ICTSAD611	Manage assessment and validation of ICT solutions
ICTSAD612	Implement and maintain uses of containerisation
ICTSAD613	Install and configure container orchestration services
ICTSAD614	Lead ICT requirements elicitation
ICTSAS210	Update and maintain hardware, software and documentation inventories
ICTSAS211	Develop solutions for basic ICT malfunctions and problems
ICTSAS212	Record the requirements of client support requests
ICTSAS213	Maintain the integrity of ICT systems
ICTSAS214	Protect devices from spam and destructive software
ICTSAS215	Protect and secure information assets
ICTSAS216	Maintain ICT equipment and replace consumables
ICTSAS217	Connect a home based local wireless network

ICTSAS218	Obtain and connect hardware peripherals
ICTSAS305	Provide ICT advice to clients
ICTSAS308	Run standard diagnostic tests
ICTSAS309	Maintain and repair ICT equipment and software
ICTSAS310	Install, configure and secure a small office or home office network
ICTSAS311	Maintain computer hardware
ICTSAS312	Provide basic system administration
ICTSAS428	Hand over ICT system components to clients
ICTSAS432	Identify and resolve client ICT problems
ICTSAS433	Update ICT client support procedures and assist with policy development
ICTSAS434	Action change requests and present updated ICT system to clients
ICTSAS435	Resolve system faults on a live system
ICTSAS436	Evaluate ICT system status
ICTSAS437	Optimise ICT system performance
ICTSAS438	Implement maintenance procedures
ICTSAS439	Analyse ICT system capacity and implement enhancements
ICTSAS440	Monitor and administer security of ICT systems
ICTSAS441	Support ICT system software
ICTSAS442	Provide first-level remote help desk support
ICTSAS443	Support operating system users and troubleshoot applications
ICTSAS444	Repair operating systems boot up procedures
ICTSAS445	Configure and troubleshoot operating system software
ICTSAS446	Fault find and troubleshoot ICT equipment, hardware and software problems
ICTSAS502	Establish and maintain client user liaison
ICTSAS506	Update ICT system operational procedures
ICTSAS512	Review and manage delivery of maintenance services
ICTSAS518	Install and upgrade operating systems
ICTSAS519	Perform systems tests
ICTSAS520	Develop detailed test plans
ICTSAS521	Perform integration tests

ICTSAS522	Manage the testing process
ICTSAS523	Perform stress and load tests on integrated platforms
ICTSAS524	Develop, implement and evaluate an incident response plan
ICTSAS525	Develop and conduct client acceptance tests
ICTSAS526	Review and update disaster recovery and contingency plans
ICTSAS527	Manage client problems
ICTSAS528	Review and develop ICT maintenance strategies
ICTSAS529	Prioritise ICT change requests
ICTSAS530	Use network tools
ICTSAS602	Implement change management processes
ICTSUS402	Install and test power saving hardware
ICTSUS403	Install and test power management software
ICTSUS404	Install thin client applications for power over ethernet
ICTSUS502	Install and test virtual infrastructure
ICTSUS603	Integrate sustainability in ICT planning and design projects
ICTSUS604	Prepare business cases for sustainability and competitive advantage in ICT projects
ICTSUS811	Conduct and manage life cycle assessments for sustainability
ICTSUS812	Lead applied research in ICT sustainability
ICTTEN410	Locate, diagnose and rectify faults
ICTTEN417	Install, configure and test a router
ICTTEN418	Install and test a radio frequency identification system
ICTTEN419	Implement and troubleshoot enterprise routers and switches
ICTTEN420	Design, install and configure an internetwork
ICTTEN426	Design network projects
ICTTEN434	Install, configure and test internet protocol networks
ICTTEN519	Design network building projects
ICTTEN520	Commission network equipment
ICTTEN521	Integrate network systems and equipment
ICTTEN522	Cut over new and replacement network equipment
ICTTEN523	Locate, diagnose and rectify complex system equipment faults

ICTTEN524	Diagnose and organise repair of complex equipment faults
ICTTEN525	Install, configure and test local area network switches
ICTTEN526	Dimension and design a radio frequency identification system
ICTTEN527	Plan wireless mesh networks
ICTTEN613	Assess integration of international network equipment into Australian networks
ICTTEN614	Conduct network system optimisation and administration
ICTTEN615	Manage network traffic
ICTTEN616	Rectify client services following network outages and faults
ICTTEN617	Manage common channel signalling networks
ICTTEN618	Analyse and organise repair of highly complex networks
ICTTEN619	Test new software and hardware releases
ICTTEN620	Produce and evaluate architecture designs for convergent cellular mobile networks
ICTTEN621	Design and configure IP-MPLS networks with virtual private network tunnelling
ICTTEN622	Produce ICT network architecture designs
ICTTEN623	Design and manage internet protocol TV in a service provider network
ICTTEN817	Plan transmission networks
ICTTEN818	Align systems with product and technology strategy
ICTTEN819	Translate domain and solution architectures into platform requirements and designs
ICTTEN820	Manage end to end architectural solutions across multiple domains
ICTTEN821	Manage solution architecture and impacts
ICTTEN822	Manage application layer solutions
ICTTEN823	Manage voice, data and internet protocol network solutions
ICTTEN824	Manage network testing strategies
ICTTEN825	Investigate applications of cloud networks in network switching
ICTTEN826	Evaluate and apply digital signal processing to communication systems
ICTTEN827	Produce engineering solutions
ICTTEN828	Manage development and application of testing artefacts
ICTWEB304	Build simple web pages
ICTWEB305	Produce digital images for the web

ICTWEB306	Develop web presence using social media
ICTWEB430	Produce server-side script for dynamic web pages
ICTWEB431	Create and style simple markup language documents
ICTWEB432	Design website layouts
ICTWEB433	Confirm accessibility of websites
ICTWEB434	Transfer content to websites
ICTWEB435	Maintain website performance
ICTWEB436	Monitor traffic and compile website traffic reports
ICTWEB437	Create website testing procedures
ICTWEB438	Conduct operational acceptance tests of websites
ICTWEB439	Confirm basic website security
ICTWEB440	Use web authoring tools
ICTWEB441	Produce basic client-side script
ICTWEB442	Produce interactive web animation
ICTWEB443	Implement search engine optimisations
ICTWEB444	Create responsive website layouts
ICTWEB445	Implement content management systems
ICTWEB446	Integrate social web technologies
ICTWEB447	Build basic website using development software and ICT tools
ICTWEB448	Confirm website content meets technical protocols and standards
ICTWEB449	Confirm website access and useability
ICTWEB450	Evaluate and select a web hosting service
ICTWEB451	Apply structured query language in relational databases
ICTWEB452	Create a markup language document
ICTWEB453	Optimise websites for mobile devices
ICTWEB513	Build dynamic websites
ICTWEB514	Create dynamic web pages
ICTWEB517	Create web-based programs
ICTWEB518	Build a document using extensible markup language
ICTWEB519	Develop complex web page layouts

ICTWEB520	Develop complex cascading style sheets
ICTWEB521	Customise complex ICT content management systems
ICTWEB522	Develop website information architecture
ICTWEB523	Manage transactions using site server tools
ICTWEB524	Analyse information and assign meta tags
ICTWEB525	Implement quality assurance process for websites
ICTWEB526	Implement and use web services
ICTWEB527	Research and apply emerging web technology trends
ICTWHS204	Follow work health and safety and environmental policy and procedures
ICTXRE401	Apply augmented reality solutions in organisations
ICTXRE402	Apply virtual reality solutions in organisations
ICTXRE403	Design mixed reality solutions

Skill Sets in scope

Code	National Title
ICTSS00099	Cloud Design and Configuration Skill Set
ICTSS00100	Cloud Implementation and Maintenance Skill Set
ICTSS00101	Cyber Incident Response Skill Set
ICTSS00102	Cyber Incident Threat Detection and Prevention Skill Set
ICTSS00103	Cyber Security Strategy and Governance Skill Set
ICTSS00104	Data Analysis Skill Set
ICTSS00105	Internet of Things Developer Skill Set
ICTSS00106	Introductory Tools and Applications Skill Set
ICTSS00107	Introductory Help Desk Skill Set
ICTSS00108	Digital Skills for Small Business Skill Set
ICTSS00109	Entry to Tech Skill Set
ICTSS00117	Cyber Security Insider Risks and Threats Skill Set
ICTSS00118	User Experience Design Skill Set
ICTSS00119	Advanced Data Analytics Skill Set
ICTSS00120	Artificial Intelligence Skill Set

ICTSS00121	Extended Reality Skill Set
ICTSS00122	Industrial Automation Skill Set
ICTSS00123	Software Automation Skill Set
ICTSS00124	Cloud Infrastructure Skill Set
ICTSS00125	Cloud Security Skill Set
ICTSS00126	Advanced Cyber Incident Threat Detection and Prevention Skill Set
ICTSS00127	Cloud Programmer Skill Set
ICTSS00128	Network Security and System Protection Skill Set
ICTSS00129	DevOps System Administration Skill Set
ICTSS00130	Intermediate Digital Skills for Small Business Skill Set
ICTSS00131	Introduction to Assistive Technologies Skill Set
ICTSS00132	Core Technical IT Skills for Introductory Roles Skill Set
ICTSS00133	Core Transferable IT Skills for Introductory Roles Skill Set
ICTSS00134	Database Development for Introductory Roles Skill Set
ICTSS00135	Database Maintenance for Introductory Roles Skill Set
ICTSS00136	Gaming Development for Introductory Roles Skill Set
ICTSS00137	Networking for Introductory Roles Skill Set
ICTSS00138	Programming Skills for Introductory Roles Skill Set
ICTSS00139	Systems Administration Support Skills for Introductory Roles Skill Set
ICTSS00140	Web Development for Introductory Roles Skill Set
ICTSS00141	Core Technical IT Skills for Intermediate Roles Skill Set
ICTSS00142	Core Transferable IT Skills for Intermediate Roles Skill Set
ICTSS00143	Networking Skills for Intermediate Roles Skill Set
ICTSS00144	Programming Skills for Intermediate Roles Skill Set
ICTSS00145	Back End Web Development for Intermediate Roles Skill Set
ICTSS00146	Business Analysis for Intermediate Roles Skill Set
ICTSS00147	Cloud Architecture for Intermediate Roles Skill Set
ICTSS00148	Cloud Engineering for Intermediate Roles Skill Set
ICTSS00149	Cyber Security for Intermediate Roles Skill Set
ICTSS00150	Database and Data Management for Intermediate Roles Skill Set

ICTSS00151	Front End Web Development for Intermediate Roles Skill Set
ICTSS00152	Game Art and Design for Intermediate Roles Skill Set
ICTSS00153	Game Programming for Intermediate Roles Skill Set
ICTSS00154	Systems Administration for Intermediate Roles Skill Set
ICTSS00155	Systems Analysis for Intermediate ICT Roles Skill Set
ICTSS00157	Core Technical IT Skills for Advanced Roles Skill Set
ICTSS00158	Core Transferable IT Skills for Advanced Roles Skill Set
ICTSS00159	Data Management Information Skills for Advanced Roles Skill Set
ICTSS00160	Cyber Security for Advanced Roles Skill Set
ICTSS00161	Full Stack Web Development for Advanced Roles Skill Set
ICTSS00162	Programming Skills for Advanced Roles Skill Set
ICTSS00163	IT Strategy and Organisational Development for Advanced Roles Skill Set
ICTSS00164	Systems Development and Analysis for Advanced Roles Skill Set
ICTSS00166	Application Development Specialist Skill Set
ICTSS00167	Basic Application Development Programmer Skill Set
ICTSS00168	Basic Web Development Specialist Skill Set
ICTSS00169	Certified Network Associate Technology Specialist Skill Set
ICTSS00170	Certified Network Professional Specialist - Voice and Wireless Skill Set
ICTSS00171	Security and Network Architect Specialist Skill Set
ICTSS00172	Certified Technology Specialist - Graphical User Interfaces Skill Set
ICTSS00173	Certified Web Design Specialist Skill Set
ICTSS00174	Hardware Technician Skill Set
ICTSS00175	Internetworking Systems Coordinator - Administrator Skill Set
ICTSS00176	Interactive Content Specialist Skill Set
ICTSS00177	System and Hardware Technician Skill Set
ICTSS00178	System and Network Plus Technician Skill Set
ICTSS00179	Virtualisation Specialist Skill Set
ICTSS00180	Visual Communications Specialist Skill Set
ICTSS00181	Website Administration Specialist Skill Set
ICTSS00182	Enterprise Desktop Virtualisation Specialist Skill Set

ICTSS00183	Enterprise Server Virtualisation Specialist Skill Set
------------	---

Superseded Units of Competency contained within the above qualifications and Skill Sets which are in scope for this update

Code	National Title
BSBCUS201	Deliver a service to customers
BSBCRT301	Develop and extend critical and creative thinking skills
BSBITU211	Produce digital text documents
CUADIG301	Prepare video assets
CUADIG302	Author interactive sequences
BSBCRT404	Apply advanced critical thinking to work processes
UEPOPS423	Plan a scheduled outage