



Australian Government

Credit arrangements for ICT Information and Communications Technology

Release: 7.2

ICT Information and Communications Technology

Modification History

<i>Release Number</i>	<i>Release Date</i>	<i>Comments</i>
Release 7.2	April 2021	<p>AISC endorsement of the following ICT components.</p> <p>Units of competency</p> <p>Two new units of competency were created:</p> <ul style="list-style-type: none"> • ICTCYS614 Analyse cyber security insider risks and threats and devise recommendations • ICTCYS615 Detect and respond to cyber security insider risks and threats. <p>SSO (Skills Service Organisation) upgrade of the following components.</p> <p>Qualifications</p> <p>Minor updates and/or minor editorial corrections were made to two qualifications from the <i>ICT Information and Communications Training Package Version 7.1</i>:</p> <ul style="list-style-type: none"> • ICT40120 Certificate IV in Information Technology • ICT60220 Advanced Diploma of Information Technology. <p>Units of competency</p> <p>Minor editorial corrections were made to three units of competency from the <i>ICT Information and Communications Training Package Version 7.1</i>:</p> <ul style="list-style-type: none"> • ICTPRG553 Create and develop REST APIs • ICTWEB433 Confirm accessibility of websites • ICTWEB444 Create responsive website layouts. <p>Skill set</p> <p>One new skill set was created:</p> <ul style="list-style-type: none"> • ICTSS00117 Cyber Security Insider Risks and Threats Skill Set. <p>The following elective units of competency have been reinstated as directed by the AISC.</p> <p>Units of competency</p> <ul style="list-style-type: none"> • ICTDRE305 Develop integrated digital reception systems • ICTDRE402 Integrate data delivery modes. <p>Qualifications</p>

		<p>Minor updates were made to two qualifications from the <i>ICT Information and Communications Training Package Version 7.1</i>, namely adding the units of competency listed above to elective groups:</p> <ul style="list-style-type: none"> • ICT30519 Certificate III in Telecommunications Technology • ICT41219 Certificate IV in Telecommunications Engineering Technology.
Release 7.1	February 2021	<p>The following elective units of competency have been deleted as directed by the AISC. The trailing products below were identified as having zero enrolments over the last three years.</p> <p>Units of competency</p> <p>27 units of competency were deleted from the <i>ICT Information and Communications Training Package Version 7.0</i>:</p> <ul style="list-style-type: none"> • ICTCBL402 Schedule and supply cabling installation • ICTDRE305 Develop integrated digital reception systems • ICTDRE402 Integrate data delivery modes • ICTNPL403 Evaluate the capability of access networks • ICTNPL404 Evaluate the planning requirements for provisioning a telecommunications building facility • ICTNPL405 Develop provisioning of telecommunications building works project • ICTNPL406 Evaluate core network architectures • ICTNPL407 Plan the deployment of core network • ICTNPL408 Produce planning specifications for end-to-end service delivery • ICTNPL411 Apply compliance requirements to telecommunications work • ICTRFN302 Install mobile telecommunications in motor vehicles • ICTRFN303 Install WiMAX customer premises equipment broadband wireless access equipment • ICTRFN403 Test and repair cellular network equipment • ICTRFN404 Undertake radio communications signals monitoring • ICTSMB402 Operate a contractor business with employees • ICTTCR201 Use rigging practices and systems on telecommunications network structures • ICTTCR202 Use operational safety in a telecommunications rigging environment • ICTTCR301 Build a telecommunications radio structure • ICTTCR302 Install radio plant and equipment on telecommunications structures • ICTTCR303 Protect against electromagnetic radiation and systems hazards when working on telecomms radio sites • ICTTEN307 Repair and replace telecommunications network

		<p>hardware</p> <ul style="list-style-type: none"> • ICTTEN319 Recover customer premises equipment • ICTTEN407 Cut over customer premises equipment major upgrades • ICTTEN424 Install and configure internet protocol TV in a service provider network • ICTTEN430 Design infrastructure for telecommunications network installations • ICTTEN431 Design a dense wavelength division multiplexing system • ICTWOR402 Schedule equipment maintenance. <p>Qualifications</p> <p>Minor updates were made to 4 qualifications from the <i>ICT Information and Communications Training Package</i> Version 7.0, which contained at least one of the units of competency listed above:</p> <ul style="list-style-type: none"> • ICT20319 Certificate II in Telecommunications Technology • ICT30519 Certificate III in Telecommunications Technology • ICT41119 Certificate IV in Telecommunications Network Design • ICT41219 Certificate IV in Telecommunications Engineering Technology. <p>SSO (Skills Service Organisation) upgrade to the following components:</p> <p>Skill sets</p> <p>3 skill sets were deleted from the <i>ICT Information and Communications Training Package</i> Version 7.0:</p> <ul style="list-style-type: none"> • ICTSS00088 Advanced Telecommunications Rigging Installation Skill Set • ICTSS00089 Basic Telecommunications Rigging Installation Skill Set • ICTSS00112 Internet Protocol Networking Skill Set.
Release 7.0	January 2021	<p>Qualifications</p> <p>3 qualifications:</p> <ul style="list-style-type: none"> • ICT20120 Certificate II in Applied Digital Technologies • ICT50220 Diploma of Information Technology • ICT60220 Advanced Diploma of Information Technology <p>The above three qualifications supersede a range of ICT qualifications detailed in the qualification mapping table in this guide.</p>

		<p>Units of competency</p> <p>4 non-equivalent units of competency updated to align content with industry skills needs and standards:</p> <ul style="list-style-type: none"> • ICTNWK555 Determine best-fit topologies for local networks • ICTNWK560 Determine best-fit topologies for wide area networks • ICTSUS811 Conduct and manage life cycle assessments for sustainability • ICTTEN524 Diagnose and organise repair of complex equipment faults <p>61 equivalent units of competency updated to align content with industry skills needs and standards:</p> <ul style="list-style-type: none"> • ICTCMP502 Conduct radio communications site audits • ICTICT531 Test network using virtual instruments • ICTICT818 Develop knowledge management strategies • ICTICT819 Lead analysis of information and communications technology business strategy • ICTICT822 Manage automated ICT system applications • ICTNPL412 Apply business acumen to network planning • ICTNPL413 Evaluate networking regulations and legislation for the telecommunications industry • ICTNWK561 Design enterprise wireless local 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 • ICTPMG506 Prepare network project briefs • ICTRFN504 Test cellular handset enhancements and international roaming agreements • ICTRFN505 Test and measure cellular phone and network
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		<p>equipment performance</p> <ul style="list-style-type: none"> • 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 • 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 • ICTSUS812 Lead applied research in ICT sustainability • 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 • 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
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		<ul style="list-style-type: none"> • 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 <p>36 units of competency were reviewed and deleted from the <i>ICT Information and Communications Training Package Version 6.1</i>:</p> <ul style="list-style-type: none"> • ICTEDU501 Develop and deliver training associated with new and modified products • ICTICT101 Operate a personal computer • ICTICT102 Operate word-processing applications • ICTICT104 Use digital devices • ICTICT105 Operate spreadsheet applications • ICTICT106 Operate presentation packages • ICTICT107 Use personal productivity tools • ICTICT108 Use digital literacy skills to access the internet • ICTICT202 Work and communicate effectively in an ICT environment • ICTICT801 Lead research into identifying new marketplace opportunities • ICTICT803 Endorse business plan components for a new initiative • ICTICT811 Manage an information architecture project • ICTICT812 Develop a business intelligence framework • ICTNPL501 Develop planning strategies for core network design • ICTNPL502 Develop planning strategies for access network design • ICTNPL503 Apply service measures and demand forecasting to products and services planning • ICTNPL504 Develop planning strategies for building environment design • ICTNPL601 Plan the development and growth of the
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		<p>telecommunications network</p> <ul style="list-style-type: none"> • ICTNPL602 Forecast service demand • ICTNPL603 Undertake network performance analysis • ICTPMG502 Develop customer premises equipment installation project plans • ICTPMG611 Prepare a detailed design brief • ICTPMG801 Manage a telecommunications workplace • ICTPMG803 Undertake a telecommunications project • ICTPMG804 Evaluate and use telecommunications management networks • ICTPRO501 Develop training, marketing and sales resources for telecommunications products • ICTRFN602 Produce and evaluate architecture designs for WiMAX networks • ICTSUS804 Use ICT to improve sustainability outcomes • ICTSUS805 Manage improvements in ICT sustainability • ICTTEN503 Design an electronic system for a telecommunications network • ICTTEN510 Undertake planned outage management • ICTTEN512 Design and implement an enterprise voice over • ICTTEN809 Analyse business specifications to produce technical solutions • ICTTEN815 Manage project requirements and process implementations • ICTTEN816 Scope project requirements and process solutions • <p>IRC approval of the following ICT components.</p> <p>Skill sets</p> <p>6 skill sets were newly created from the <i>ICT Information and Communications Training Package</i> Version 6.1:</p> <ul style="list-style-type: none"> • ICTSS00110 Radio Frequency Skill Set • ICTSS00111 Optical Networking Skill Set • ICTSS00112 Internet Protocol Networking Skill Set • ICTSS00113 Telecommunications Networking Management Skill Set • ICTSS00114 Advanced Telecommunications Networking Skill Set • ICTSS00115 XG Cellular Network Infrastructure Rollout Skill Set <p>3 skill sets were deleted from the <i>ICT Information and Communications Training Package</i> Version 6.1:</p> <ul style="list-style-type: none"> • ICTSS00044 Computing and Application Fundamentals Skill Set • ICTSS00047 Digital Literacy Skill Set
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		<ul style="list-style-type: none"> • ICTSS00046 Digital Literacy - eCitizen Skill Set <p>17 skill sets were updated from the <i>ICT Information and Communications Training Package</i> Version 6.1:</p> <ul style="list-style-type: none"> • ICTSS00048 Hardware Technician Skill Set • ICTSS00077 Telecommunications Linesworker Copper Skill Set • ICTSS00078 Telecommunications Linesworker Fibre Skill Set • ICTSS00083 Underground Installations Skill Set • ICTSS00084 Basic Open Cabler Registration Skill Set • ICTSS00085 Basic Restricted Cabler Registration Skill Set • ICTSS00086 ACMA Advanced Cabler Registration Skill Set • ICTSS00087 Basic Technician Network Build and Operate Skill Set • ICTSS00091 Radio Technician Skill Set • ICTSS00092 Technical Help Desk Support Skill Set • ICTSS00093 Telecommunications Linesworker HFC Skill Set • ICTSS00094 Technician Fibre Skill Set • ICTSS00095 Fibre Splicer Skill Set • ICTSS00097 Telecommunications Customer Service Technician – HFC Technician Skill Set • ICTSS00098 Network Technician HFC Skill Set • ICTSS00099 Cloud Design and Configuration Skill Set • ICTSS00116 XG Cellular Network Implementation Skill Set
Release 6.1	October 2020	<p>SSO (Skills Service Organisation) upgrade.</p> <p>Qualifications</p> <p>Minor update to one ICT Information and Communications Technology Training Package version 6.0 qualification:</p> <ul style="list-style-type: none"> • ICT30120 Certificate III in Information Technology <p>Minor update to three ICT Information and Communications Technology Training Package version 6.0 qualifications:</p> <ul style="list-style-type: none"> • ICT40120 Certificate IV in Information Technology • ICT50120 Diploma of Information Technology • ICT60120 Diploma of Information Technology <p>Skill sets</p> <p>Two new skill sets were created:</p> <ul style="list-style-type: none"> • ICTSS00108 Digital Skills in Small Business Skill Set • ICTSS00109 Entry to Tech Skill Set

		<p>Minor update to one ICT Information and Communications Technology Training Package version 6.0 skill set:</p> <ul style="list-style-type: none"> • ICTSS00099 Cloud Design and Configuration Skill Set <p>Units of competency</p> <p>Minor update to six ICT Information and Communications Technology Training Package version 6.0 units of competency:</p> <ul style="list-style-type: none"> • ICTCYS406 Respond to cyber security incidents • ICTCYS601 Create cyber security standards for organisations • ICTICT216 Design and create basic organisational documents • ICTNWK544 Design and implement a security perimeter for ICT networks • ICTPRG549 Apply intermediate object-oriented language skills <p>ICTSAS210 Update and maintain hardware, software and documentation.</p>
Release 6.0	July 2020	<p>AISC endorsement of the following ICT components.</p> <p>Qualifications</p> <p>4 qualifications:</p> <ul style="list-style-type: none"> • ICT30120 Certificate III in Information Technology • ICT40120 Certificate IV in Information Technology • ICT50120 Diploma of Information Technology • ICT60120 Advanced Diploma of Information Technology <p>were updated and supersede the following 24 qualifications from the ICT Information and Communications Training Package Version 5.1 and are not equivalent to their previous versions:</p> <ul style="list-style-type: none"> • ICT30118 Certificate III in Information, Digital Media and Technology • ICT40118 Certificate IV in Information Technology • ICT40215 Certificate IV in Information Technology Support • ICT40315 Certificate IV in Web-Based Technologies • ICT40418 Certificate IV in Information Technology Networking • ICT40518 Certificate IV in Programming • ICT40815 Certificate IV in Digital Media Technologies • ICT40915 Certificate IV in Digital and Interactive Games • ICT41015 Certificate IV in Computer Systems Technology • ICT50118 Diploma of Information Technology • ICT50215 Diploma of Digital and Interactive Games

		<ul style="list-style-type: none"> • ICT50318 Diploma of Information Technology Systems Administration • ICT50418 Diploma of Information Technology Networking • ICT50515 Diploma of Database Design and Development • ICT50615 Diploma of Website Development • ICT50718 Diploma of Software Development • ICT50818 Diploma of Systems Analysis and Design • ICT50915 Diploma of Digital Media Technologies • ICT60115 Advanced Diploma of Information Technology • ICT60215 Advanced Diploma of Network Security • ICT60315 Advanced Diploma of Information Technology Business Analysis • ICT60415 Advanced Diploma of Information Technology Project Management • ICT60515 Advanced Diploma of Computer Systems Technology • ICT80115 Graduate Certificate in Information Technology and Strategic Management <p>Skill sets</p> <p>9 skill sets were newly created from the ICT Information and Communications Training Package Version 5.1:</p> <ul style="list-style-type: none"> • 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 <p>2 skill sets were deleted from the ICT Information and Communications Training Package Version 5.1:</p> <ul style="list-style-type: none"> • ICTSS00033 Basic Computer Hardware and System Troubleshooting Skill Set • ICTSS00045 Computing Fundamentals Skill Set <p>Units of competency</p> <p>53 new units of competency were newly created for this ICT</p>
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		<p>Information and Communications Training Package Version 6.0:</p> <ul style="list-style-type: none"> • 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 • ITCYS401 Design and implement network security infrastructure for an organisation • ITCYS402 Identify and confirm cyber security incidents • ITCYS403 Plan and implement information security strategies for an organisation • ITCYS404 Run vulnerability test assessments for an organisation • ITCYS405 Develop cyber security incident response plans • ITCYS406 Respond to cyber security incidents • ITCYS407 Gather, analyse and interpret threat data • ITCYS601 Create cyber security standards for organisations • ITCYS602 Implement cyber security operations • ITCYS603 Undertake penetration testing for organisations • ITCYS604 Implement best practices for identity management • ITCYS606 Evaluate an organisation's compliance with relevant cyber security standards and law • ITCYS607 Acquire digital forensic data • ITCYS608 Perform cyber security risk assessments • ITCYS609 Evaluate threats and vulnerabilities of IoT devices • ITCYS610 Protect critical infrastructure for organisations • ITCYS611 Configure security devices for organisations • ITCYS612 Design and implement virtualised cyber security infrastructure for organisations • ITCYS613 Utilise design methodologies for security architecture • 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 • ICTICT313 Identify IP, ethics and privacy policies in ICT
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		<p>environments</p> <ul style="list-style-type: none"> • 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 distributed ledgers • ICTICT451 Comply with IP, ethics and privacy policies in ICT environments • ICTICT527 Develop and maintain blockchain solutions • ICTICT528 Deploy smart contracts • ICTICT529 Organise and lead agile projects • ICTICT530 Design user experience solutions • ICTIOT501 Install IT devices and networks • ICTIOT502 Program IoT devices • ICTIOT503 Design and test IoT devices and networks • ICTPMG301 Contribute as part of an IT project management team • 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 • ICTSAD612 Implement and maintain uses of containerisation • ICTSAD613 Install and configure container orchestration services <p>7 non-equivalent units of competency updated to align content with industry skills needs and standards:</p> <ul style="list-style-type: none"> • ICTICT222 Research and share ICT solutions for Indigenous users • ICTICT440 Develop service level agreements • ICTICT532 Apply IP, ethics and privacy policies in ICT environments • ICTSAS434 Action change requests and present updated ICT system to clients • ICTTEN434 Install, configure and test internet protocol networks • ICTWEB306 Develop web presence using social media • ICTWEB444 Create responsive website layouts <p>255 equivalent units of competency updated to align content with industry skills needs and standards:</p> <ul style="list-style-type: none"> • ICTCLD301 Evaluate characteristics of cloud computing solutions and services
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		<ul style="list-style-type: none"> • ICTCLD601 Develop cloud computing strategies for businesses • ICTCLD602 Manage information security compliance of cloud service deployment • ICTDBS416 Create basic relational databases • ICTDBS417 Identify and resolve common database performance problems • ICTDBS418 Monitor and administer databases • 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 • 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 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
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		<ul style="list-style-type: none"> • 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 databases 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 • ICTICT213 Use computer operating systems and hardware • ICTICT214 Operate application software package • ICTICT216 Design and create basic organisational documents • ICTICT219 Interact and resolve queries with ICT clients • ICTICT221 Identify and use specific industry standard technologies • ICTICT309 Create ICT user documentation • ICTICT310 Identify and use industry specific technologies • ICTICT311 Customise packaged software applications • ICTICT312 Use advanced features of applications • ICTICT429 Determine and confirm client business requirements • ICTICT430 Apply software development methodologies
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		<ul style="list-style-type: none"> • 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 • ICTNWK537 Implement secure encryption technologies • ICTNWK538 Install and maintain valid authentication processes • ICTNWK539 Design and implement integrated server solutions • 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 • 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 • 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 • ICTNWK618 Design and implement a security system
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		<ul style="list-style-type: none"> • 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 • ICTPMG411 Support small scale ICT projects • ICTPMG612 Manage ICT project initiation • 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 • 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 • 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
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		<ul style="list-style-type: none"> • 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 • ICTPRG603 Develop advanced mobile multi-touch applications • ICTPRG614 Create cloud computing services • ICTSAD402 Develop and present ICT feasibility reports • ICTSAD507 Design and implement quality assurance processes for business solutions • ICTSAD508 Develop technical requirements for business solutions • ICTSAD509 Produce ICT feasibility reports • 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 • 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 ICT system integrity • 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 • ICTSAS309 Maintain and repair ICT equipment and software • ICTSAS310 Install, configure and secure a small office or home office network • ICTSAS428 Hand over ICT system components to clients • ICTSAS432 Identify and resolve client ICT problems • ICTSAS433 Update ICT client support procedures and assist with
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		<p>policy development</p> <ul style="list-style-type: none"> • 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 • ICTSAS524 Develop, implement and evaluate an incident response plan • ICTSAS526 Review and update disaster recovery and contingency plans • ICTSAS528 Review and develop ICT maintenance strategy • ICTSAS529 Prioritise ICT change requests • ICTWEB304 Build simple web pages • ICTWEB305 Produce digital images for the web • 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 • 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
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		<ul style="list-style-type: none"> • 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 • 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 <p>12 units of competency:</p> <ul style="list-style-type: none"> • ICTGAM535 Develop complex 3-D software for games and interactive media • ICTICT519 Develop detailed component specifications from project specifications • ICTNWK423 Manage network and data integrity • ICTNWK540 Design, build and test network servers • ICTNWK546 Manage network security • ICTPMG505 Manage ICT projects • ICTPMG613 Manage ICT project planning • ICTPRG605 Manage development of technical solutions from business specifications • ICTSAS525 Develop and conduct client acceptance test • ICTSAS527 Manage client problems • ICTSAS602 Implement change management processes • ICTWEB451 Apply structured query language in relational databases <p>were updated and supersede 12 units of competency from the ICT Information and Communications Training Package Version 5.1 and are not equivalent to their previous versions:</p> <ul style="list-style-type: none"> • ICTGAM507 Develop intermediate 3-D software for games and interactive media
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		<ul style="list-style-type: none"> • ICTPMG504 Prepare project specifications • ICTPMG610 Develop a project management plan • ICTPMG802 Manage a telecommunications project • ICTPRG425 Use structured query language • ICTTEN501 Provide consultancy and technical support in the customer premises equipment sector • ICTTEN504 Acceptance test new systems and equipment • ICTTEN511 Administer a data communications network • ICTTEN514 Install, configure and test a server • ICTTEN516 Produce technical solutions from business specifications • ICTTEN605 Implement planned network changes with minimal impact to the customer • ICTTEN811 Evaluate and apply network security. <p>38 units of competency were deleted from the ICT Information and Communications Training Package Version 5.1:</p> <ul style="list-style-type: none"> • ICTDBS408 Link an RFID system to a database • ICTGAM415 Develop simple environments for 3-D games • ICTGAM417 Apply digital effects to interactive products • ICTGAM506 Create complex code for mobile game devices • ICTICT402 Determine project specifications and secure client agreement • ICTICT412 Coordinate and maintain ICT work teams • ICTICT416 Contribute to the development of strategic plans • ICTICT512 Plan process re-engineering strategies for business • ICTICT802 Direct ICT services • ICTICT804 Direct ICT in a supply chain • ICTICT805 Direct ICT procurement • ICTICT806 Direct outsourced ICT services • ICTICT807 Direct research and business response to new ICT technology • ICTICT810 Synchronise ICT projects • ICTICT813 Manage ICT services • ICTNWK414 Create a common gateway interface script • ICTNWK521 Install, configure and test a payment gateway • ICTPMG601 Establish ICT project governance • ICTPMG606 Manage ICT project quality • ICTPMG607 Manage and control ICT project risks • ICTPRG416 Manage a software component re-use library • ICTPRG428 Use regular expressions in programming languages • ICTPRG512 Prepare for the build phase of an ICT system
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		<ul style="list-style-type: none"> • ICTPRG513 Coordinate the build phase of an ICT system • ICTPRG525 Build Java applets • ICTPRG526 Maintain functionality of legacy code programs • ICTSAS402 Implement configuration management strategies • ICTSAS403 Review site environmental factors prior to ICT system implementation • ICTSAS404 Acquire ICT system components • ICTSAS407 Conduct pre-installation audit for software installation • ICTSAS408 Complete data transition in data migration process • ICTSAS409 Manage risks involving ICT systems and technology • ICTSAS507 Implement and evaluate systems for regulatory and standards compliance • ICTSUS802 Conduct a business case study for integrating sustainability in ICT planning and design projects • ICTSUS803 Research strategies using SAP solutions for sustainable economic and environmental outcomes • ICTSUS808 Plan and manage virtualisation for ICT sustainability • ICTWEB419 Develop guidelines for uploading information to a website • ICTWEB512 Administer business websites and servers.
Release 5.1	January 2020	Minor updates to Companion Volume
Release 5.0	May 2019	<p>Qualifications</p> <p>Six qualifications were updated from the ICT Information and Communications Technology Training Package Version 4.0 and supersede but are not equivalent to their previous versions:</p> <ul style="list-style-type: none"> • ICT20219 Certificate II in Telecommunications Network Build and Operation supersedes ICT20215 Certificate II in Telecommunications Network Build and Operate and is deemed not equivalent (updated to increase core unit requirement from five to six and to decrease elective unit requirement from seven to six; remove two elective units of competency and insert four elective units of competency; modify title, packaging rules and groups.) • ICT20319 Certificate II in Telecommunications Technology supersedes ICT20315 Certificate II in Telecommunications Technology and is deemed not equivalent (updated to increase core unit requirement from six to seven and to decrease elective unit requirement from nine to six; insert one elective unit of competency; modify packaging rules and groups to introduce two specialisations.) • ICT30419 Certificate III in Telecommunications Network Build

		<p>and Operation supersedes ICT30415 Certificate III in Telecommunications Network Build and Operate and is deemed not equivalent (updated to increase core unit requirement from five to six and to decrease elective core unit requirement from nine to eight; remove one elective unit of competency and insert 18 elective units of competency; modify title, packaging rules and groups.)</p> <ul style="list-style-type: none"> • ICT30519 Certificate III in Telecommunications Technology supersedes ICT30515 Certificate III in Telecommunications Technology and is deemed not equivalent (updated to decrease core unit requirement from seven to six and to increase elective unit requirement from nine to ten; remove 12 elective units of competency and insert 27 elective units of competency; modify packaging rules and groups to introduce four specialisations.) • ICT41119 Certificate IV in Telecommunications Network Design supersedes ICT41115 Certificate IV in Telecommunications Network Design and is deemed not equivalent (updated to decrease core unit requirement from eight to six and to increase elective unit requirement from eight to 10; remove one elective unit of competency and insert nine elective units of competency; modify packaging rules and groups and introduce qualification entry requirements.) • ICT41219 Certificate IV in Telecommunications Engineering Technology supersedes ICT41215 Certificate IV in Telecommunications Engineering Technology and is deemed not equivalent (updated to decrease core unit requirement from eight to five and increase the elective unit requirement from eight to 12; remove four elective units and insert ten elective units; modify packaging rules and groups to introduce one specialisation and introduce qualification entry requirements.) <p>Two qualifications were deleted from the ICT Information and Communications Technology Training Package:</p> <ul style="list-style-type: none"> • ICT30215 Certificate III in Telecommunications Digital Reception Technology • ICT30315 Certificate III in Telecommunications Rigging Installation. <p>Three qualifications were updated as part of an SSO upgrade to reflect changed elective units:</p> <ul style="list-style-type: none"> • ICT30118 Certificate III in Information, Digital Media and Technology • ICT40215 Certificate IV in Information Technology Support (equivalent and non-equivalent elective units updated) • ICT40418 Certificate IV in Information Technology Networking
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		<p>(non-equivalent elective unit updated).</p> <p>Units of competency</p> <p>13 new units of competency were newly created for this ICT Information and Communications Technology Training Package Version 5.0:</p> <ul style="list-style-type: none"> • ICTBWN306 Use radio frequency measuring instruments • ICTBWN307 Use optical measuring instruments • ICTCBL248 Install and terminate hard-line coaxial cable • ICTCBL331 Conduct basic identification and fault-finding within cabling networks and customer equipment • ICTCBL332 Locate, identify and rectify copper cable faults • ICTDRE308 Install a cable broadband multi-dwelling unit system • ICTTEN210 Install underground telecommunications infrastructure • ICTTEN211 Work effectively in a telecommunications network environment • ICTTEN315 Determine and apply technologies within a telecommunications system • ICTTEN316 Conduct basic tests and analyses of telecommunications copper cabling • ICTTEN317 Locate, identify and rectify telecommunications network faults • ICTTEN435 Solve electrical-based telecommunications circuitry and cabling problems • ICTWOR308 Provide customer service to telecommunications customers. <p>42 units of competency were updated from the ICT Information and Communications Technology Training Package Version 4.0:</p> <ul style="list-style-type: none"> • 27 units supersede and are equivalent to their previous versions: <ul style="list-style-type: none"> • ICTCBL239 Install customer cable support systems (recoded from ICTCBL201) • ICTCBL240 Place and secure customer cable (recoded from ICTCBL202) • ICTCBL241 Terminate metallic conductor customer cable recoded from ICTCBL203 • ICTCBL242 Install functional and protective telecommunications earthing system (recoded from ICTCBL204) • ICTCBL246 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule (recoded from ICTCBL236)
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		<ul style="list-style-type: none"> • ICTCBL247 Install, maintain and modify customer premises communications cabling: ACMA Open Rule (recoded from ICTCBL237) • ICTCBL252 Joint and terminate coaxial cable (recoded from ICTCBL209) • ICTCBL253 Construct underground telecommunications infrastructure (recoded from ICTTCBL213) • ICTCBL254 Joint metallic conductor cable in access network (recoded from ICTCBL215) • ICTCBL324 Cut over new systems and equipment on customer premises (recoded from ICTCBL312) • ICTCBL325 Maintain cable network (recoded from ICTCBL315) • ICTCBL326 Cut over metallic conductor cable in the access network (recoded from ICTCBL317) • ICTCBL334 Install underground enclosures and conduit (recoded from ICTCBL307) • ICTCBL335 Construct aerial cable supports (recoded from ICTCBL309) • ICTCBL336 Install and cut over metallic conductor cable to access network cabinet (recoded from ICTCBL318) • ICTCMP203 Perform restricted customer premises broadband cabling work: ACMA Restricted Rule (recoded from ICTCMP202) • ICTDRE314 Design communications wiring systems for customer premises (recoded from ICTDRE304) • ICTOPN405 Install and test a dense wavelength division multiplexing system (recoded from ICTOPN401) • ICTRFN407 Conduct radio frequency measurements (recoded from ICTRFN401) • ICTTEN312 Install telecommunications network equipment (recoded from ICTTEN302). • ICTTEN313 Work on and resolve recurrent network faults (recoded from ICTTEN303) • ICTTEN319 Recover customer premises equipment (recoded from ICTTEN304) • ICTTEN320 Commission an electronic unit (recoded from ICTTEN306) • ICTTEN321 Maintain an electronic system (recoded from ICTTEN308) • ICTTEN322 Provide infrastructure for telecommunications network customer equipment (recoded from ICTTEN309) • ICTTEN432 Identify requirements for customer telecommunications equipment (recoded from ICTTEN401).
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		<ul style="list-style-type: none"> • ICTTEN433 Install configuration programs on PC based customer equipment (recoded from ICTTEN405) • 15 units supersede but are not equivalent to their previous versions: <ul style="list-style-type: none"> • ICTBWN308 Work safely on live optical fibre installations (recoded from ICTBWN304) • ICTBWN309 Perform tests on optical communication system and components (recoded from ICTBWN301) • ICTCBL249 Haul underground cable for installation and maintenance work (recoded from ICTCBL207) • ICTCBL250 Haul and fix aerial cable (recoded from ICTCBL214) • ICTCBL251 Install aerial and underground cable lead-ins (recoded from ICTCBL220) • ICTCBL322 Install, test and terminate optical fibre cable on customer premises recoded from ICTCBL302) • ICTCBL323 Test cables and systems on customer premises (recoded from ICTCBL304) • ICTCBL329 Install underground cable for communications applications (recoded from ICTCBL308) • ICTCBL330 Splice and terminate optical fibre cable for telecommunications projects (recoded from ICTCBL208) • ICTCBL333 Install aerial cable for communications applications (recoded from ICTCBL310) • ICTOPN404 Test optical communications systems and components (recoded from ICTOPN402) • ICTTEN208 Use electrical skills when working with telecommunications networks (recoded from ICTTEN201) • ICTTEN318 Inspect, clean and handle optical fibre cable and connectors (recoded from ICTTEN311) • ICTWHS205 Work safely near power infrastructure at a telecommunications workplace (recoded from ICTWHS203) • ICTWOR202 Work effectively in the digital and telecommunications industry (recoded from ICTWOR201). <p>Two units of competency were deleted from the ICT Information and Communications Technology Training Package Version 4.0:</p> <ul style="list-style-type: none"> • ICTBWN305 Use optical and radio frequency measuring instruments • ICTTEN305 Refurbish customer premises equipment. <p>Four new skill sets were newly created from the ICT Information and</p>
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		<p>Communications Technology Training Package Version 4.0:</p> <ul style="list-style-type: none"> • ICTSS00087 Basic Technician Network Build and Operate Skill Set • ICTSS00096 Technician Hybrid Fibre Coaxial Skill Set • ICTSS00097 Telecommunications Customer Service Technician HFC Technician Skill Set • ICTSS00098 Network Technician HFC Skill Set. <p>Ten skill sets were updated and are deemed not equivalent to ICT Information and Communications Technology Training Package Version 4.0:</p> <ul style="list-style-type: none"> • ICTSS00084 Basic Open Cabler Registration Skill Set supersedes ICTSS00062 Basic Open Cabler Registration Skill Set • ICTSS00085 Basic Restricted Cabler Registration Skill Set supersedes ICTSS00063 Basic Restricted Cabler Registration Skill Set • ICTSS00088 Advanced Telecommunications Rigging Installation Skill Set supersedes ICTSS00060 Advanced Telecommunications Rigging Installation Skills Set • ICTSS00089 Basic Telecommunications Rigging Installation Skill Set supersedes ICTSS00064 Basic Telecommunications Rigging Installation Skill Set • ICTSS00090 Advanced IoT Installation Skill Set supersedes ICTSS00067 Convergent Technology Skill Set • ICTSS00091 Radio Technician Skill Set supersedes ICTSS00074 Radio Technician Skill Set • ICTSS00092 Technical Help Desk supersedes ICTSS00075 Technical Help Skill Set • ICTSS00093 Telecommunications Linesworker HFS Skill Set supersedes ICTSS00093 Telecommunications Linesworker Skill Set • ICTSS00094 Technician Fibre Skill Set supersedes ICTSS00081 Technician Fibre Skill Set • ICTSS00095 Fibre Splicer Skill Set supersedes ICTSS00082 Fibre Splicer Skill Set. <p>Ten skill sets were updated to include unit code updates:</p> <ul style="list-style-type: none"> • ICTSS00058 ACMA Advanced Cabler Registration Skill Set • ICTSS00065 Civil Works – Installation of Pit and Pipe and FDH Skill Set • ICTSS00066 Commercial Digital Television Antenna Systems Installation Skill Set • ICTSS00069 Domestic Digital Television Antenna Installation
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		<p>Skill Set</p> <ul style="list-style-type: none"> • ICTSS00071 IP Convergence Installations for Home and SME Skill Set • ICTSS00076 Wireless LAN and IP Network Installation Skill Set • ICTSS00077 Telecommunications Linesworker Copper Skill Set • ICTSS00078 Telecommunications Linesworker Fibre Skill Set • ICTSS00080 Copper Cable Jointer Skill Set • ICTSS00083 Underground Installations Skill Set. <p>Non-endorsable units of competency</p> <p>21 units of competency were updated to fix minor typographical errors and are equivalent to ICT Information and Communications Technology Training Package Version 4.0:</p> <ul style="list-style-type: none"> • ICTCBL205 Joint metallic conductor cable on customer premises • ICTCBL206 Alter services to existing cable system • ICTCBL210 Install a telecommunications service to a building • ICTCBL238 Install, maintain and modify customer premises communications cabling: ACMA Lift Rule • ICTCBL301 Install, terminate and certify structured cabling installation • ICTCBL303 Install and terminate coaxial cable • ICTCBL305 Hand over cable systems and equipment • ICTCBL306 Locate and identify cable system faults • ICTCBL313 Modify and cutover cable • ICTCBL316 Install ribbon fibre cable in the FTTX distribution network • ICTCBL319 Rearrange large size copper cable • ICTDRE301 Install digital reception equipment • ICTDRE303 Install a complex digital reception system • ICTPMG201 Prepare site for support installation • ICTRFN406 Maintain hybrid fibre coaxial broadband cable network • ICTTEN202 Use hand and power tools • ICTTEN307 Repair and replace telecommunications network hardware • ICTWOR307 Collect and analyse technical information • ICTWHS204 Follow work health and safety and environmental policy and procedures • ICTSAS410 Identify and resolve client ICT problems • ICTPRG415 Apply skills in object-oriented design
Release 4.0	November 2018	<p>Qualifications</p> <p>Nine qualifications were updated from the ICT Information and</p>

		<p>Communications Technology Training Package Version 3.1:</p> <ul style="list-style-type: none"> • ICT30118 Certificate III in Information, Digital Media and Technology supersedes ICT30115 Certificate III in Information, Digital Media and Technology and is equivalent (updated to change one out of six core units of competency) • ICT40118 Certificate IV in Information Technology supersedes ICT40115 Certificate IV in Information Technology and is not equivalent (updated to change three core units of competency, remove four elective units of competency, insert 17 elective units of competency, and modify the packaging rules and groups) • ICT40418 Certificate IV in Information Technology Networking supersedes ICT40415 Certificate IV in Information Technology Networking and is equivalent (updated to change one out of eight core units of competency) • ICT40518 Certificate IV in Programming supersedes ICT40515 Certificate IV in Programming and is equivalent (updated to change one out of ten core units of competency) • ICT50118 Diploma of Information Technology supersedes ICT50115 Diploma of Information Technology and is equivalent (updated to change one out of four core units of competency) • ICT50318 Diploma of Information Technology Systems Administration supersedes ICT50315 Diploma of Information Technology Systems Administration and is equivalent (updated to change one out of ten core units of competency) • ICT50418 Diploma of Information Technology Networking supersedes ICT50415 Diploma of Information Technology Networking and is equivalent (updated to change one out of five core units of competency) • ICT50718 Diploma of Software Development supersedes ICT50715 Diploma of Software Development and is equivalent (updated to change one out of ten core units of competency) • ICT50818 Diploma of Systems Analysis and Design supersedes ICT50815 Diploma of Systems Analysis and Design and is equivalent (updated to change one out of nine core units of competency). <p>Three qualifications were deleted from the ICT Information and Communications Technology Training Package:</p> <ul style="list-style-type: none"> • ICT40615 Certificate IV in Information Technology Testing • ICT40715 Certificate IV in Systems Analysis and Design • ICT80215 Graduate Certificate in Information Technology Sustainability. <p>Units of competency</p> <p>Four units of competency were newly created:</p>
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		<ul style="list-style-type: none"> • 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 • ICTWEB431 Create and style simple markup language documents. <p>20 units of competency were updated from the ICT Information and Communications Technology Training Package version 3.1:</p> <ul style="list-style-type: none"> • ICTDBS413 Determine database requirements (updated Title, Application, Elements, and Assessment Requirements to clarify intent) (recoded from ICTDBS401) • ICTDBS414 Complete database backup and restore (updated Application, Elements, and Assessment Requirements to clarify intent) (recoded from ICTDBS402) • ICTDBS415 Build a database (updated Elements, and Assessment Requirements to clarify intent) (recoded from ICTDBS412) • ICTICT427 Identify, evaluate and apply current industry-specific technologies to meet organisational needs (updated Title, Application, Elements, and Assessment Requirements to clarify intent) (recoded from ICTICT417) • ICTICT428 Select cloud storage solutions (updated Title, Application and Element 1 to clarify intent and scope; integrated Element 3 into Element 2; and updated Foundation Skills to reflect unit content) (recoded from ICTICT423) • ICTICT517 Match ICT needs with the strategic direction of the organisation (updated Title, Application, Elements, and Assessment Requirements to clarify intent and scope) (recoded from ICTICT511) • ICTNWK420 Install and configure virtual machines (updated Assessment Requirements and typographical edit to title to clarify intent) (recoded from ICTNWK402) • ICTNWK421 Install, configure and test network security (updated Application, Elements and Assessment Requirements to clarify intent and scope; and updated Foundation Skills to reflect unit content) (recoded from ICTNWK406) • ICTNWK536 Plan, implement and test enterprise communication solutions (updated Application, Elements and Assessment Requirements to clarify intent and scope; and updated Foundation Skills to reflect unit content) (recoded from ICTNWK501) • ICTPRG430 Apply introductory object-oriented language skills (updated Elements, Foundation Skills and Assessment Requirements to clarify intent) (recoded from ICTPRG406) • ICTPRG531 Prepare for application development using current
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		<p>methods (updated Title, Application, Elements, and Assessment Requirements to modify intent and scope) (recoded from ICTPRG514)</p> <ul style="list-style-type: none"> • ICTPRG532 Apply advanced object-oriented language skills (updated Elements and Assessment Requirements to clarify intent) (recoded from ICTPRG501) • ICTSAS308 Run standard diagnostic tests (updated Application, Elements and Assessment Requirements to clarify intent and scope) (recoded from ICTSAS301) • ICTSAS519 Perform systems tests (updated unit of competency to incorporate relevant content from ICTSAS401) (recoded from ICTSAS503) • ICTSAS520 Develop detailed test plans (updated unit of competency to reflect industry requirements) (recoded from ICTSAS513) • ICTSAS521 Perform integration tests (updated unit of competency to reflect industry requirements) (recoded from ICTSAS514) • ICTSAS522 Manage the testing process (updated unit of competency to reflect industry requirements) (recoded from ICTSAS515) • ICTSAS523 Perform stress and load tests on integrated platforms (updated unit of competency to reflect industry requirements) (recoded from ICTSAS516) • ICTSUS808 Plan and manage virtualisation for ICT sustainability (updated unit of competency to reflect industry requirements) (recoded from ICTSUS801) • ICTWEB430 Produce server-side script for dynamic web pages (updated unit of competency to reflect industry requirements) (recoded from ICTWEB415). <p>Six units of competency were deleted from the ICT Information and Communications Technology Training Package:</p> <ul style="list-style-type: none"> • ICTSAS401 Perform unit test for a class • ICTSAS405 Identify and evaluate ICT industry vendor technologies • ICTSUS401 Install and test renewable energy system for ICT networks • ICTWEB301 Create a simple markup language document • ICTWEB409 Develop cascading style sheets <p>ICTWEB420 Write content for web pages.</p>
Release 3.1		SSO (Skills Service Organisation) upgrades to correct minor mapping errors.

		<p>Qualifications</p> <p>Six qualifications were updated and equivalent to ICT Information and Communications Technology Training Package version 3:</p> <ul style="list-style-type: none"> • ICT20215 Certificate II in Telecommunications Network Build and Operate (minor update to the specialist stream elective groups) • ICT30415 Certificate III in Telecommunications Network Build and Operate (packaging rules updated to require six electives, minor update to the specialist stream elective groups) • ICT40815 Certificate IV in Digital Media Technologies (updated to clarify packaging rules) • ICT40915 Certificate IV in Digital and Interactive Games (updated to clarify packaging rules) • ICT80215 Graduate Certificate in Information Technology Sustainability (updated qualification description). <p>Two qualifications were updated and equivalent to ICT Information and Communications Technology Training Package version 3 to reflect changes in unit of competency titles in this release:</p> <ul style="list-style-type: none"> • ICT50415 Diploma of Information Technology Networking • ICT51015 Diploma of Telecommunications Engineering. <p>Skill sets</p> <p>Seven new skill sets:</p> <ul style="list-style-type: none"> • ICTSS00077 Telecommunications Linesworker Copper Skill Set • ICTSS00078 Telecommunications Linesworker Fibre Skill Set • ICTSS00079 Telecommunications Linesworker HFC Skill Set • ICTSS00080 Copper Cable Jointer Skill Set • ICTSS00081 Technician Fibre Skill Set • ICTSS00082 Fibre Splicer Skill Set • ICTSS00083 Underground Installations Skill Set. <p>Three skill sets were removed:</p> <ul style="list-style-type: none"> • ICTSS00070 Installing NBN Wireless and Infrastructure Skill Set • ICTSS00072 National Broadband Network Advanced Linesworker/Installer Skill Set • ICTSS00073 National Broadband Network Splicer Skill Set.
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		<p>Units of competency</p> <p>Six units of competency were updated and equivalent to ICT Information and Communications Technology Training Package version 3:</p> <ul style="list-style-type: none"> • ICTCBL236 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule (updated to include the ACMA's assessment standards for persons seeking registration) • ICTCBL237 Install, maintain and modify customer premises communications cabling: ACMA Open Rule (updated to include the ACMA's assessment standards for persons seeking registration) • ICTNWK405 Build a small wireless local area network (updated to reinstate performance element from ICT Information and Communications Technology version 2) • ICTTEN512 Design and implement an enterprise voice over internet protocol and a unified communications network (unit of competency title updated to correct typographical error) • ICTWHS204 Follow work health and safety and environmental policy and procedures (updated to correct typographical errors) <p>ICTWOR307 Collect and analyse technical information (updated to correct typographical errors).</p>
Release 3.0	January 2016	<p>Units of competency</p> <p>Six new units of competency:</p> <ul style="list-style-type: none"> • ICTCBL317 Cut over metallic conductor cable in the access network • ICTCBL318 Install and cut over metallic conductor cable to access network cabinet • ICTCBL319 Rearrange large size copper cable • ICTCBL320 Jumper metallic conductor cable in the access network • ICTTEN310 Remove and replace electronic circuit boards in carrier equipment • ICTTEN311 Inspect, clean and handle optical fibre cable and connectors. <p>Industry Skills Council upgrades</p> <p>Unit code updates and/or modifications to elective banks in two qualifications:</p> <ul style="list-style-type: none"> • ICT20215 Certificate II in Telecommunications Network Build and Operate <p>ICT30415 Certificate III in Telecommunications Network Build and</p>

		Operate.
Release 2.0	January 2016	<p>Qualifications, skill sets and units from ICT10 Integrated Telecommunications Training Package were reviewed and updated to meet Standards for Training Packages and included in the ICT Information and Communications Technology Training Package version 2.</p> <p>Qualifications</p> <p>12 qualifications:</p> <ul style="list-style-type: none"> • ICT20215 Certificate II in Telecommunications Network Build and Operate • ICT20315 Certificate II in Telecommunications Technology • ICT30215 Certificate III in Telecommunications Digital Reception Technology • ICT30315 Certificate III in Telecommunications Rigging Installation • ICT30415 Certificate III in Telecommunications Network Build and Operate • CT30515 Certificate III in Telecommunications Technology • ICT41115 Certificate IV in Telecommunications Network Design • ICT41215 Certificate IV in Telecommunications Engineering Technology • ICT51015 Diploma of Telecommunications Engineering • ICT51115 Diploma of Telecommunications Planning and Design • ICT60615 Advanced Diploma of Telecommunications Network Engineering • ICT80615 Graduate Certificate in Telecommunications Network Engineering. <p>Skill sets</p> <p>19 skill sets.</p> <p>Units of competency</p> <p>239 units of competency were updated to meet the Standards for Training Packages.</p> <p>One new unit of competency:</p> <ul style="list-style-type: none"> • ICTNWK617 Configure and manage a storage area network.

		Industry Skills Council upgrades Unit codes were corrected or updated in 26 qualifications from ICT Information and Communications Technology Training Package version 1. Unit codes were corrected or updated in 27 skill sets from ICT Information and Communications Technology Training Package version 1.
Release 1.0	March 2015	Primary release of restructured ICT Information Communications Technology Training Package. This release of ICT Information Communications Technology Training Package contains 32 qualifications, 27 skill sets and 417 native units of competency comprising 417 units updated to meet Standards for Training Packages) and 106 imported units. <ul style="list-style-type: none"> • ICT80115 Graduate Certificate in Information Technology and Strategic Management (updated to meet AQF Requirements) • ICT80215 Graduate Certificate in Information Technology Sustainability (updated to meet AQF Requirements) • ICT80415 Graduate Diploma of Telecommunications Network Engineering (updated to meet AQF Requirements) • ICT80315 Graduate Certificate in Telecommunications – added ICT80515 Graduate Diploma of Telecommunications and Strategic Management – added.

Credit Arrangements

Credit Arrangements for ICT Information and Communications Technology Training Package Version 7.2

At the time of endorsement of this Training Package no national credit arrangements exist.

Links	Companion Volume Implementation Guide: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2
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Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>