

ICA11 INFORMATION AND COMMUNICATIONS TECHNOLOGY TRAINING PACKAGE

Version 2

WA NOMINAL HOURS GUIDE

**Western Australian Department of Training and Workforce
Development**

November 2013

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Foreword

This Guide has been generated to enable the stakeholders in the Information and Communications Technology Industry in Western Australia to participate in the managed implementation of the National ICA11 Information and Communications Technology Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the **endorsed components** of the Training Package

Version 2 of the ICA11 Information and Communications Technology Training Package was released by Training.Gov (TGA) on the **7 November 2013**.

Obtaining the Training Package

The ICA11 Information and Communications Technology Training Package can be purchased from:



Office: Level 11, 176 Wellington Parade
East Melbourne VIC 3002
T: (03) 9815 7000 | F: (03) 9815 7001
E: reception@ibsa.org.au
W: www.ibsa.org.au

Information on National Training Packages is also available through Training.Gov (TGA), which can be located on the Internet at: www.training.gov.au

All RTOs who have Training Package qualifications on their Scope of Delivery must have access to the relevant Training Package.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of the release date of the Training Package on to Training.gov.au (TGA).

Students currently enrolled in an existing version of the Training Package qualification should be permitted to complete the program they enrolled in initially, unless the move to the related qualification from a Training Package can be made without disadvantage to a student.

Nominal Hours

The Commonwealth Department of Employment, Education and Workplace Relations' definition of nominal hours states:

“The value assigned to a structured program of study that nominally represents the anticipated hours of supervised learning and/or training deemed necessary to conduct training/learning and assessment activities associated with the program of study”

Source: National Quality Council Training Package Glossary Version V2.1
17/03/2010

<http://www.deewr.gov.au/Skills/Overview/Policy/TPDH/Downloads/Documents/TrainingPackGlossary.pdf>

Nominal hours are identified for each Training Package qualification. Total nominal hours may vary within a qualification depending on the units of competency

In Western Australia, nominal hours are used as a mechanism for funding allocation.

Version Modification History

The version details of this endorsed Training Package are in the table below. The latest information is at the top of the table.

Version	TGA Release Date	Modification History
2	7 November 2013	<p>NSSC endorsement: Units of competency Ten new units:</p> <ul style="list-style-type: none"> • ICAICT423A Select cloud storage strategies • ICAICT814A Develop cloud computing strategies for a business • ICANWK306A Evaluate characteristics of cloud computing solutions and services • CANWK419A Identify and use current virtualisation technologies • ICANWK533A Configure and manage advanced virtual computing environments • ICANWK534A Monitor and troubleshoot virtual computing environments • ICANWK535A Install an enterprise virtual computing environment • ICANWK615A Design and configure desktop virtualisation • ICANWK616A Manage security, privacy and compliance of cloud service deployment • ICAPRG604A Create cloud computing services <p>ISC upgrade: Update qualifications to reflect the addition of new units of competency to elective group/s:</p> <ul style="list-style-type: none"> • ICA10111 Certificate I in Information, Digital Media and Technology • ICA30111 Certificate III in Information, Digital Media and Technology • ICA40111 Certificate IV in Information Technology • ICA40211 Certificate IV in Information Technology Support • ICA41011 Certificate IV in Computer Systems Technology • ICA40411 Certificate IV in Information Technology Networking • ICA40511 Certificate IV in Programming • ICA40711 Certificate IV in Systems Analysis and Design • ICA40911 Certificate IV in Digital and Interactive Games • ICA50111 Diploma of Information Technology • ICA50311 Diploma of Information Technology Systems Administration • ICA50411 Diploma of Information Technology Networking • ICA50511 Diploma of Database Design and Development • ICA50711 Diploma of Software Development • ICA50911 Diploma of Digital Media Technologies • ICA60111 Advanced Diploma of Information Technology • ICA60211 Advanced Diploma of Network Security • ICA60511 Advanced Diploma of Computer Systems Technology • ICA70111 Vocational Graduate Certificate in Information Technology and Strategic Management <p>Update five units to reflect new technology in the cloud virtualisation area:</p> <ul style="list-style-type: none"> • ICADBS503B Create a data warehouse • ICADBS601B Build a data warehouse • ICADBS603B Determine suitability of database functionality and scalability • ICANWK525B Configure an enterprise virtual computing environment • ICANWK527B Manage an enterprise virtual computing environment <p>Develop two new skill sets:</p> <ul style="list-style-type: none"> • Enterprise Server Virtualisation Specialist

Version	TGA Release Date	Modification History
1	18 July 2011	<ul style="list-style-type: none"> • Enterprise Desktop Virtualisation Specialist Primary release, replacing ICA05 Information and Communications Technology Training Package

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the ICA11 Information and Communications Technology Training Package

National ID	Training Package Qualification Title	Nominal Hours
ICA10111	Certificate I in Information, Digital Media and Technology	160
ICA20111	Certificate II in Information, Digital Media and Technology	370
ICA30111	Certificate III in Information, Digital Media and Technology	610
ICA40111	Certificate IV in Information Technology	690
ICA40211	Certificate IV in Information Technology Support	705
ICA40311	Certificate IV in Web-Based Technologies	705
ICA40411	Certificate IV in Information Technology Networking	660
ICA40511	Certificate IV in Programming	805
ICA40611	Certificate IV in Information Technology Testing	695
ICA40711	Certificate IV in Systems Analysis and Design	730
ICA40811	Certificate IV in Digital Media Technologies	700
ICA40911	Certificate IV in Digital and Interactive Games	730
ICA41011	Certificate IV in Computer Systems Technology	810
ICA50111	Diploma of Information Technology	650
ICA50211	Diploma of Digital and Interactive Games	700
ICA50311	Diploma of Information Technology Systems Administration	575
ICA50411	Diploma of Information Technology Networking	715
ICA50511	Diploma of Database Design and Development	685
ICA50611	Diploma of Website Development	810
ICA50711	Diploma of Software Development	655
ICA50811	Diploma of Systems Analysis and Design	645
ICA50911	Diploma of Digital Media Technologies	850
ICA60111	Advanced Diploma of Information Technology	580
ICA60211	Advanced Diploma of Network Security	555
ICA60311	Advanced Diploma of Information Technology Business Analysis	635
ICA60411	Advanced Diploma of Information Technology Project Management	650
ICA60511	Advanced Diploma of Computer Systems Technology	1105
ICA70111	Graduate Certificate In Information Technology and Strategic Management	320
ICA70211	Graduate Certificate In Information Technology Sustainability	280

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the ICA11 Information and Communications Technology Training Package

Note: The new units in version 2 are highlighted in red

National ID	Training Package Unit Title	Nominal Hours
ICADBS401A	Identify physical database requirements	35
ICADBS402A	Complete database backup and restore	25
ICADBS403A	Create basic databases	40
ICADBS404A	Identify and resolve common database performance problems	25
ICADBS407A	Monitor physical database implementation	20
ICADBS408A	Link an RFID system to a database	25
ICADBS409A	Monitor and administer a database	25
ICADBS412A	Build a database	30
ICADBS501A	Monitor and improve knowledge management system	20
ICADBS502A	Design a database	50
ICADBS503B	Create a data warehouse	30
ICADBS504A	Integrate database with a website	25
ICADBS601B	Build a data warehouse	80
ICADBS602A	Develop a knowledge management strategy	80
ICADBS603B	Determine suitability of database functionality and scalability	30
ICADMT401A	Create visual design components for digital media	50
ICADMT402A	Produce interactive animation	60
ICADMT403A	Produce and edit digital images	40
ICADMT501A	Incorporate and edit digital video	50
ICAGAM301A	Apply simple modelling techniques	50
ICAGAM302A	Design and apply simple textures to digital art	50
ICAGAM303A	Review and apply the principles of animation	60
ICAGAM401A	Produce an interactive game	60
ICAGAM402A	Identify and apply principles of games design and game playing	40
ICAGAM403A	Create design documents for interactive games	30
ICAGAM404A	Apply artificial intelligence in game development	60
ICAGAM405A	Write story and content for digital games	30
ICAGAM406A	Create visual design components for interactive games	50
ICAGAM407A	Write scripts for interactive games	60
ICAGAM408A	Use 3-D animation interface and toolsets	40
ICAGAM409A	Create 3-D characters for interactive games	50
ICAGAM410A	Develop 3-D components for interactive games	50
ICAGAM412A	Design interactive media	40
ICAGAM413A	Design and create 3-D digital models	50
ICAGAM414A	Create audio for digital games	50
ICAGAM415A	Develop simple environments for 3-D games	30
ICAGAM416A	Prepare and complete image rendering processes	50
ICAGAM417A	Apply digital effects to interactive products	50
ICAGAM418A	Use simple modelling for animation	40
ICAGAM419A	Build a database to support a computer game	30
ICAGAM501A	Create design concepts for digital games and 3-D media	30
ICAGAM503A	Create a complex 3-D interactive computer game	60
ICAGAM504A	Manage interactive media production	40
ICAGAM506A	Create complex code for mobile game devices	60
ICAGAM507A	Develop intermediate 3-D software for games and interactive media	60
ICAGAM508A	Develop complex 3-D software for games and interactive media	60
ICAGAM509A	Design interactive 3-D applications for scientific and mathematical modelling	60
ICAGAM510A	Prepare games for different platforms and delivery modes	50
ICAGAM511A	Manage testing of games and interactive media	30
ICAGAM512A	Create and implement designs for a 3-D games environment	50

National ID	Training Package Unit Title	Nominal Hours
ICAGAM514A	Design and create models for a 3-D and digital effects environment	50
ICAGAM515A	Design and create advanced particles, fluids and bodies for 3-D digital effects	50
ICAGAM516A	Animate a 3-D character for digital games	40
ICAGAM517A	Produce a digital animation sequence	60
ICAGAM518A	Animate physical attributes of models and elements	30
ICAGAM519A	Manage technical art and rigging in 3-D animation	50
ICAGAM520A	Create and combine 3-D digital games and components	30
ICAGAM521A	Create interactive 3-D environments for digital games	40
ICAGAM522A	Complete digital editing for the 3-D and digital effects environment	20
ICAGAM523A	Collaborate in the design of 3-D game levels and environments	40
ICAGAM524A	Integrate multiple data sources into interactive 3-D environments	30
ICAGAM525A	Apply digital texturing for the 3-D environment in digital games	30
ICAGAM526A	Create complex 3-D characters for games	60
ICAGAM527A	Integrate database with online game	30
ICAGAM528A	Create games for mobile devices	60
ICAGAM529A	Analyse business opportunities in the digital games environment	30
ICAGAM530A	Develop and implement physics in a 3-D digital game	40
ICAGAM531A	Complete compositing to create elements for the 3-D and digital effects environment	40
ICAICT101A	Operate a personal computer	20
ICAICT102A	Operate word-processing applications	30
ICAICT103A	Use, communicate and search securely on the internet	50
ICAICT104A	Use digital devices	30
ICAICT105A	Operate spreadsheet applications	30
ICAICT106A	Operate presentation packages	25
ICAICT107A	Use personal productivity tools	30
ICAICT108A	Use digital literacy skills to access the internet	20
ICAICT201A	Use computer operating systems and hardware	30
ICAICT202A	Work and communicate effectively in an IT environment	30
ICAICT203A	Operate application software packages	60
ICAICT204A	Operate a digital media technology package	40
ICAICT205A	Design basic organisational documents using computing packages	40
ICAICT206A	Install software applications	15
ICAICT207A	Integrate commercial computing packages	25
ICAICT208A	Operate accounting applications	30
ICAICT209A	Interact with ICT clients	20
ICAICT210A	Operate database applications	35
ICAICT211A	Identify and use basic current industry-specific technologies	40
ICAICT212A	Incorporate Indigenous needs and perspectives into IT environment	20
ICAICT301A	Create user documentation	20
ICAICT302A	Install and optimise operating system software	20
ICAICT303A	Connect internal hardware components	30
ICAICT304A	Implement system software changes	15
ICAICT305A	Identify and use current industry-specific technologies	60
ICAICT306A	Migrate to new technology	25
ICAICT307A	Customise packaged software applications for clients	40
ICAICT308A	Use advanced features of computer applications	35
ICAICT401A	Determine and confirm client business requirements	35
ICAICT402A	Determine project specifications and secure client agreement	20
ICAICT403A	Apply software development methodologies	20
ICAICT404A	Use online learning tools	30
ICAICT405A	Develop detailed technical design	55
ICAICT406A	Build a graphical user interface	20
ICAICT407A	Maintain website information standards	20
ICAICT408A	Create technical documentation	20
ICAICT409A	Develop macros and templates for clients using standard products	55
ICAICT410A	Conduct post-implementation IT system reviews	20

National ID	Training Package Unit Title	Nominal Hours
ICAICT411A	Select and employ software and hardware testing tools	35
ICAICT412A	Coordinate and maintain IT work teams	25
ICAICT413A	Relate to clients on a business level	20
ICAICT415A	Provide one-to-one instruction	20
ICAICT416A	Contribute to the development of strategic plans	20
ICAICT417A	Identify, evaluate and apply current industry-specific technologies to meet industry standards	60
ICAICT418A	Contribute to copyright, ethics and privacy in an IT environment	40
ICAICT419A	Work effectively in the digital media industry	30
ICAICT420A	Develop client user interface	40
ICAICT421A	Connect, maintain and configure hardware components	40
ICAICT422A	Participate in IT services	20
ICAICT423A	Select cloud storage strategies	35
ICAICT501A	Research and review hardware technology options for organisations	20
ICAICT502A	Develop detailed component specifications from project specifications	40
ICAICT503A	Validate quality and completeness of system design specifications	20
ICAICT504A	Confirm transition strategy for a new system	10
ICAICT505A	Determine acceptable developers for projects	30
ICAICT506A	Implement process re-engineering strategies	20
ICAICT507A	Select new technology models for business	20
ICAICT508A	Evaluate vendor products and equipment	20
ICAICT509A	Gather data to identify business requirements	30
ICAICT510A	Determine appropriate IT strategies and solutions	25
ICAICT511A	Match IT needs with the strategic direction of the enterprise	25
ICAICT512A	Plan process re-engineering strategies for business	30
ICAICT514A	Identify and manage the implementation of current industry-specific technologies	60
ICAICT515A	Verify client business requirements	40
ICAICT601A	Develop IT strategic and action plans	25
ICAICT602A	Develop contracts and manage contracted performance	25
ICAICT603A	Manage the use of appropriate development methodologies	30
ICAICT604A	Identify and implement business innovation	60
ICAICT605A	Implement a knowledge management strategy	30
ICAICT606A	Develop communities of practice	30
ICAICT608A	Interact with clients on a business level	40
ICAICT609A	Lead the evaluation and implementation of current industry-specific technologies	80
ICAICT610A	Manage copyright, ethics and privacy in an IT environment	30
ICAICT701A	Lead research into identifying new marketplace opportunities	80
ICAICT702A	Direct ICT services	80
ICAICT703A	Endorse business plan components for a new initiative	80
ICAICT704A	Direct ICT in a supply chain	80
ICAICT705A	Direct ICT procurement	80
ICAICT706A	Direct outsourced ICT services	80
ICAICT707A	Direct research and business response to new ICT technology	80
ICAICT708A	Direct the development of a knowledge management strategy for a business	80
ICAICT709A	Facilitate business analysis	80
ICAICT710A	Synchronise IT projects	80
ICAICT711A	Manage an information architecture project	80
ICAICT712A	Develop a business intelligence framework	80
ICAICT713A	Manage IT services	80
ICAICT814A	Develop cloud computing strategies for a business	35
ICANWK301A	Provide network systems administration	20
ICANWK302A	Determine and action network problems	30
ICANWK303A	Configure and administer a network operating system	40
ICANWK304A	Administer network peripherals	20
ICANWK305A	Install and manage network protocols	30

National ID	Training Package Unit Title	Nominal Hours
ICANWK306A	Evaluate characteristics of cloud computing solutions and services	35
ICANWK401A	Install and manage a server	20
ICANWK402A	Install and configure virtual machines for sustainable ICT	50
ICANWK403A	Manage network and data integrity	40
ICANWK404A	Install, operate and troubleshoot a small enterprise branch network	60
ICANWK405A	Build a small wireless local area network	20
ICANWK406A	Install, configure and test network security	40
ICANWK407A	Install and configure client-server applications and services	40
ICANWK408A	Configure a desktop environment	40
ICANWK409A	Create scripts for networking	40
ICANWK410A	Install hardware to a network	40
ICANWK411A	Deploy software to networked computers	35
ICANWK412A	Create network documentation	40
ICANWK414A	Create a common gateway interface script	40
ICANWK416A	Build security into virtual private networks	20
ICANWK417A	Build an enterprise wireless network	20
ICANWK418A	Implement backbone technologies in a local area network	40
ICANWK419A	Identify and use current virtualisation technologies	35
ICANWK501A	Plan, implement and test enterprise communication solutions	80
ICANWK502A	Implement secure encryption technologies	20
ICANWK503A	Install and maintain valid authentication processes	25
ICANWK504A	Design and implement an integrated server solution	50
ICANWK505A	Design, build and test a network server	50
ICANWK506A	Configure, verify and troubleshoot WAN links and IP services in a medium enterprise network	90
ICANWK507A	Install, operate and troubleshoot medium enterprise routers	120
ICANWK508A	Install, operate and troubleshoot medium enterprise switches	90
ICANWK509A	Design and implement a security perimeter for ICT networks	60
ICANWK510A	Develop, implement and evaluate system and application security	55
ICANWK511A	Manage network security	45
ICANWK513A	Manage system security	45
ICANWK514A	Model preferred system solutions	35
ICANWK515A	Develop configuration management protocols	30
ICANWK516A	Determine best-fit topology for a local network	20
ICANWK517A	Determine best-fit topology for a wide area network	20
ICANWK518A	Design an enterprise wireless local area network	25
ICANWK519A	Design an IT security framework	25
ICANWK520A	Design IT system security controls	30
ICANWK521A	Install, configure and test a payment gateway	30
ICANWK522A	Build decks using wireless markup language	30
ICANWK524A	Install and configure network access storage devices	40
ICANWK525B	Configure an enterprise virtual computing environment	60
ICANWK526A	Install an enterprise virtual computing environment	60
ICANWK527B	Manage an enterprise virtual computing environment	60
ICANWK529A	Install and manage complex ICT networks	55
ICANWK531A	Configure an internet gateway	20
ICANWK532A	Identify and resolve network problems	30
ICANWK533A	Configure and manage advanced virtual computing environments	35
ICANWK534A	Monitor and troubleshoot virtual computing environments	35
ICANWK535A	Install an enterprise virtual computing environment	50
ICANWK601A	Design and implement a security system	90
ICANWK602A	Plan, configure and test advanced server based security	80
ICANWK603A	Plan, configure and test advanced internetwork routing solutions	120
ICANWK604A	Plan and configure advanced internetwork switching solutions	120
ICANWK605A	Design and configure secure integrated wireless systems	40
ICANWK606A	Implement voice applications over secure wireless networks	40
ICANWK607A	Design and implement wireless network security	60
ICANWK608A	Configure network devices for a secure network infrastructure	40

National ID	Training Package Unit Title	Nominal Hours
ICANWK609A	Configure and manage intrusion prevention system on network sensors	40
ICANWK610A	Design and build integrated VoIP networks	50
ICANWK611A	Configure call processing network elements for secure VoIP networks	40
ICANWK612A	Plan and manage troubleshooting advanced integrated IP networks	120
ICANWK613A	Develop plans to manage structured troubleshooting process of enterprise networks	40
ICANWK614A	Manage IT security	70
ICANWK615A	Design and configure desktop virtualisation	70
ICANWK616A	Manage security, privacy and compliance of cloud service deployment	35
ICAPMG401A	Support small scale IT projects	60
ICAPMG501A	Manage IT projects	80
ICAPMG601A	Establish IT project governance	40
ICAPMG602A	Manage IT project initiation	40
ICAPMG603A	Manage IT project planning	40
ICAPMG604A	Manage IT project delivery	40
ICAPMG605A	Manage IT project closure	40
ICAPMG606A	Manage IT project quality	40
ICAPMG607A	Manage and control IT project risks	40
ICAPMG608A	Manage IT project systems implementation	40
ICAPMG609A	Plan and direct complex IT projects	80
ICAPRG301A	Apply introductory programming techniques	40
ICAPRG401A	Maintain open-source code programs	20
ICAPRG402A	Apply query language	60
ICAPRG403A	Develop data-driven applications	60
ICAPRG404A	Test applications	50
ICAPRG405A	Automate processes	40
ICAPRG406A	Apply introductory object-oriented language skills	60
ICAPRG407A	Write script for software applications	40
ICAPRG409A	Develop mobile applications	50
ICAPRG410A	Build a user interface	50
ICAPRG412A	Configure and maintain databases	50
ICAPRG413A	Use a library or pre-existing components	35
ICAPRG414A	Apply introductory programming skills in another language	60
ICAPRG415A	Apply skills in object-oriented design	35
ICAPRG416A	Manage a software component reuse library	35
ICAPRG417A	Apply mathematical techniques for software development	20
ICAPRG418A	Apply intermediate programming skills in another language	60
ICAPRG419A	Analyse software requirements	60
ICAPRG425A	Use structured query language	55
ICAPRG426A	Prepare software development review	25
ICAPRG427A	Use XML effectively	50
ICAPRG428A	Use regular expressions in programming languages	40
ICAPRG501A	Apply advanced object-oriented language skills	80
ICAPRG502A	Manage a project using software management tools	60
ICAPRG503A	Debug and monitor applications	40
ICAPRG504A	Deploy an application to a production environment	40
ICAPRG505A	Build advanced user interface	60
ICAPRG506A	Design application architecture	40
ICAPRG507A	Implement security for applications	50
ICAPRG508A	Create mashups	50
ICAPRG509A	Build using rapid application development	35
ICAPRG510A	Maintain custom software	35
ICAPRG511A	Monitor and support data conversion to new IT system	10
ICAPRG512A	Prepare for the build phase of an IT system	20
ICAPRG513A	Coordinate the build phase of an IT system	20
ICAPRG514A	Prepare for software development using rapid application development	25
ICAPRG515A	Review developed software	25
ICAPRG516A	Develop integration blueprint for IT systems	20

National ID	Training Package Unit Title	Nominal Hours
ICAPRG517A	Install, test and evaluate pilot version of IT system	20
ICAPRG518A	Monitor the system pilot	20
ICAPRG520A	Validate an application design against specifications	40
ICAPRG523A	Apply advanced programming skills in another language	80
ICAPRG524A	Develop high-level object-oriented class specifications	45
ICAPRG525A	Build Java applets	30
ICAPRG526A	Maintain functionality of legacy code programs	40
ICAPRG527A	Apply intermediate object-oriented language skills	50
ICAPRG528A	Perform IT data conversion	20
ICAPRG529A	Apply testing techniques for software development	40
ICAPRG601A	Develop advanced mobile multi-touch applications	80
ICAPRG602A	Manage the development of technical solutions from business specifications	40
ICAPRG603A	Create cloud computing services	60
ICAPRG604A	Create cloud computing services	35
ICASAD401A	Develop and present feasibility reports	25
ICASAD501A	Model data objects	30
ICASAD502A	Model data processes	30
ICASAD503A	Minimise risk of new technologies to business solutions	30
ICASAD504A	Implement quality assurance processes for business solutions	30
ICASAD505A	Develop technical requirements for business solutions	30
ICASAD506A	Produce a feasibility report	30
ICASAD601A	Perform IT-focused enterprise analysis	40
ICASAD602A	Conduct knowledge audits	40
ICASAD603A	Plan and monitor business analysis activities in an IT environment	40
ICASAD604A	Manage and communicate IT solutions	40
ICASAD605A	Elicit IT requirements	40
ICASAD606A	Analyse stakeholder requirements	40
ICASAD607A	Manage assessment and validation of IT solutions	40
ICASAS201A	Maintain inventories for equipment, software and documentation	15
ICASAS202A	Apply problem-solving techniques to routine IT malfunctions	20
ICASAS203A	Connect hardware peripherals	25
ICASAS204A	Record client support requirements	15
ICASAS205A	Maintain IT system integrity	20
ICASAS206A	Detect and protect from spam and destructive software	10
ICASAS207A	Protect and secure information assets	15
ICASAS208A	Maintain IT equipment and consumables	15
ICASAS209A	Connect and use a home-based local wireless network	30
ICASAS301A	Run standard diagnostic tests	15
ICASAS303A	Care for computer hardware	20
ICASAS304A	Provide basic system administration	25
ICASAS305A	Provide IT advice to clients	35
ICASAS306A	Maintain equipment and software	25
ICASAS307A	Install, configure and secure a small office home office network	50
ICASAS401A	Perform unit test for a class	40
ICASAS402A	Implement configuration management strategies	25
ICASAS403A	Review site environmental factors prior to IT system implementation	15
ICASAS404A	Acquire IT system components	15
ICASAS405A	Identify and evaluate IT industry vendor technologies	15
ICASAS406A	Implement and hand over system components	20
ICASAS407A	Conduct pre-installation audit for software installation	25
ICASAS408A	Complete data transition in data migration process	25
ICASAS409A	Manage risks involving ICT systems and technology	20
ICASAS410A	Identify and resolve client IT problems	35
ICASAS411A	Assist with policy development for client support procedures	15
ICASAS412A	Action change requests	45
ICASAS413A	Manage resolution of system faults on a live system	35
ICASAS414A	Evaluate system status	20

National ID	Training Package Unit Title	Nominal Hours
ICASAS415A	Optimise IT system performance	30
ICASAS416A	Implement maintenance procedures	10
ICASAS417A	Undertake IT system capacity planning	50
ICASAS418A	Monitor and administer security of an IT system	20
ICASAS419A	Support system software	45
ICASAS420A	Provide first-level remote help-desk support	35
ICASAS421A	Support users and troubleshoot desktop applications	20
ICASAS422A	Scope implementation requirements	15
ICASAS424A	Support different operating systems	40
ICASAS425A	Configure and troubleshoot operating system software	40
ICASAS426A	Locate and troubleshoot IT equipment, system and software faults	30
ICASAS501A	Develop, implement and evaluate an incident response plan	25
ICASAS502A	Establish and maintain client user liaison	20
ICASAS503A	Perform systems tests	25
ICASAS504A	Develop and conduct client acceptance test	25
ICASAS505A	Review and update disaster recovery and contingency plans	30
ICASAS506A	Update IT system operational procedures	30
ICASAS507A	Implement and evaluate systems for regulatory and standards compliance	15
ICASAS509A	Provide client IT support services	20
ICASAS510A	Review and develop IT maintenance strategy	35
ICASAS511A	Prioritise IT change requests	15
ICASAS512A	Review and manage delivery of maintenance services	25
ICASAS513A	Develop detailed test plans	30
ICASAS514A	Perform integration tests	25
ICASAS515A	Manage the testing process	15
ICASAS516A	Perform stress and load tests on integrated platforms	25
ICASAS517A	Use network tools	50
ICASAS518A	Install and upgrade operating systems	50
ICASAS601A	Implement change-management processes	30
ICASUS701A	Plan and manage virtualisation for IT sustainability	80
ICASUS702A	Conduct a business case study for integrating sustainability in IT planning and design projects	80
ICASUS703A	Research strategies using SAP solutions for sustainable economic and environmental outcomes	80
ICAWEB201A	Use social media tools for collaboration and engagement	20
ICAWEB301A	Create a simple markup language document	30
ICAWEB302A	Build simple websites using commercial programs	50
ICAWEB303A	Produce digital images for the web	30
ICAWEB401A	Design a website to meet technical requirements	40
ICAWEB402A	Confirm accessibility of websites for people with special needs	10
ICAWEB403A	Transfer content to a website using commercial packages	20
ICAWEB404A	Maintain website performance	30
ICAWEB405A	Monitor traffic and compile website traffic reports	15
ICAWEB406A	Create website testing procedures	20
ICAWEB407A	Conduct operational acceptance tests of websites	20
ICAWEB408A	Ensure basic website security	20
ICAWEB409A	Develop cascading style sheets	20
ICAWEB410A	Apply web authoring tool to convert client data for websites	20
ICAWEB411A	Produce basic client-side script for dynamic web pages	40
ICAWEB412A	Produce interactive web animation	80
ICAWEB413A	Optimise search engines	50
ICAWEB414A	Design simple web page layouts	50
ICAWEB415A	Produce server-side script for dynamic web pages	60
ICAWEB416A	Customise content management system	80
ICAWEB417A	Integrate social web technologies	40
ICAWEB418A	Use development software and IT tools to build a basic website	20
ICAWEB419A	Develop guidelines for uploading information to a website	20

National ID	Training Package Unit Title	Nominal Hours
ICAWEB420A	Write content for web pages	30
ICAWEB421A	Ensure website content meets technical protocols and standards	30
ICAWEB422A	Ensure website access and useability	15
ICAWEB423A	Ensure dynamic website security	25
ICAWEB424A	Evaluate and select a web hosting service	15
ICAWEB425A	Apply structured query language to extract and manipulate data	60
ICAWEB429A	Create a markup language document to specification	20
ICAWEB501A	Build a dynamic website	30
ICAWEB502A	Create dynamic web pages	30
ICAWEB503A	Create web-based programs	60
ICAWEB504A	Build a document using eXtensible markup language	30
ICAWEB505A	Develop complex web page layouts	40
ICAWEB506A	Develop complex cascading style sheets	40
ICAWEB507A	Customise a complex IT content management system	80
ICAWEB508A	Develop website information architecture	30
ICAWEB509A	Use site server tools for transaction management	20
ICAWEB510A	Analyse information and assign meta-tags	20
ICAWEB511A	Implement quality assurance process for websites	20
ICAWEB512A	Administer business websites and servers	30
ICAWEB515A	Implement and use web services	50
ICAWEB516A	Research and apply emerging web technology trends	80

Mapping Units of Competency

The following table provides an overview of the units of competency from Version 1 of the ICA11 Information and Communication Technology Training package which are replaced by the units of competency from Version 2.

Version 1 Current Units of Competency				Version 2 Replacement Units of Competency		
National ID	Title	Hours	E / NE	National ID	Title	Hours
ICADBS503A	Create a data warehouse	30	E	ICADBS503B	Create a data warehouse	30
ICADBS601A	Build a data warehouse	80	E	ICADBS601B	Build a data warehouse	80
ICADBS603A	Determine suitability of database functionality and scalability	30	E	ICADBS603B	Determine suitability of database functionality and scalability	30
	No previous equivalent			ICAICT423A	Select cloud storage strategies	35
	No previous equivalent			ICAICT814A	Develop cloud computing strategies for a business	35
	No previous equivalent			ICANWK306A	Evaluate characteristics of cloud computing solutions and services	35
	No previous equivalent			ICANWK419A	Identify and use current virtualisation technologies	35
ICANWK525A	Configure an enterprise virtual computing environment	60	E	ICANWK525B	Configure an enterprise virtual computing environment	60
ICANWK527A	Manage an enterprise virtual computing environment	60	E	ICANWK527B	Manage an enterprise virtual computing environment	60
	No previous equivalent			ICANWK533A	Configure and manage advanced virtual computing environments	35
	No previous equivalent			ICANWK534A	Monitor and troubleshoot virtual computing environments	35
	No previous equivalent			ICANWK535A	Install an enterprise virtual computing environment	50
	No previous equivalent			ICANWK615A	Design and configure desktop virtualisation	70
	No previous equivalent			ICANWK616A	Manage security, privacy and compliance of cloud service deployment	35
	No previous equivalent			ICAPRG604A	Create cloud computing services	35

Traineeships

The following table provides a summary of the qualifications in Version 2 of the ICA11 Information and Communications Technology Training Package and the accredited traineeship courses attached.

Version 2			
National ID	Qualification Title	Traineeship	Hours
ICA20111	Certificate II in Information, Digital Media and Technology	Information Technology (Level 2)	370
ICA30111	Certificate III in Information, Digital Media and Technology	Information Technology (Level 3)	610
ICA40211	Certificate IV in Information Technology Support	Information Technology (Support) (Level 4)	705
ICA40311	Certificate IV in Web-Based Technologies	Information Technology (Websites) (Level 4)	705
ICA40411	Certificate IV in Information Technology Networking	Information Technology (Networking) (Level 4)	660
ICA40711	Certificate IV in Systems Analysis and Design	Information Technology (System Analysis and Design) (Level 4)	730
ICA40811	Certificate IV in Digital Media Technologies	Information Technology (Multimedia) (Level 4)	700