

**Victorian Purchasing Guide
for
ICT Information and Communications Technology
Release 4**

April 2019



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Victorian Purchasing Guide - Version History

Training Package Version	Date VPG Released	Comments
ICT Information and Communications Technology Training Package Release 4	17 April 2019	<p>ICT Release 4 includes nine upgraded and recoded qualifications, all of which are equivalent with the exception of</p> <ul style="list-style-type: none"> ▪ ICT40118 Certificate IV in Information Technology <p>The three qualifications listed below have been deleted and replaced by the above:</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>Four new units of competency have been created:</p> <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>Six units of competency have been deleted:</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 • ICTWEB420 Write content for web pages. <p>For further information visit here.</p>
ICT Information and Communications Technology Training Package Release 3	September 2016	Correction to qualification list – ICT20215 included
ICT Information and Communications Technology Training Package Release 3	July 2016	Corrections to maximum payable hours due to incorrect file uploaded for Release 3.

ICT Information and Communications Technology Training Package Release 3	18 April 2016	This release of the Victorian Purchasing Guide contains: <ul style="list-style-type: none"> • 2 Revised qualifications • 6 New Units of Competency
ICT Information and Communications Technology Training Package Release 2	Not Published	This release of the Victorian Purchasing Guide contains: <ul style="list-style-type: none"> • 12 Revised qualifications • 240 Revised Units of Competency
ICT Information and Communications Technology Training Package Release 1	08 Sept 2015 (Stage 2)	This Victorian Purchasing Guide includes the maximum payable hours for all Information and Communications Technology qualifications and Sample Training Programs in addition to the nominal hours information published in Stage 1 (see below).
ICT Information and Communications Technology Training Package Release 1	20 May 2015 (Stage 1)	Please note: This Victorian Purchasing Guide (Stage 1) contains Unit data and associated nominal hours ONLY for ALL units in Release 1 of this Training Package. This decision has been approved by Higher Education and Skills Group (HESG) in order to ensure all stakeholders and jurisdictions that need access to unit hours for the purposes of delivery are not subject to unnecessary delays.

ICT Information and Communications Technology Training Package Victorian Purchasing Guide Release 4

CONTENTS

INTRODUCTION	6
QUALIFICATIONS	7
UNITS OF COMPETENCY	9
CONTACTS AND LINKS	28
GLOSSARY	30

INTRODUCTION

What is a Victorian Purchasing Guide?

The Victorian Purchasing Guide provides information for use by Registered Training Organisations (RTOs) in the provision of Victorian government subsidised training.

Specifically the Victorian Purchasing Guide provides the following information related to the delivery of nationally endorsed Training Packages in Victoria:

- The maximum and minimum payable hours available for each qualification.
- Nominal hours for each unit of competency within the Training Package.

Registration

RTOs must be registered by either the Victorian Registration and Qualifications Authority (VRQA) or the Australian Skills Qualification Authority (ASQA) regulatory body to be eligible to issue qualifications and statements of attainment under the Australian Qualifications Framework (AQF).

The VRQA is the regulatory authority in Victoria responsible for the registration of education and training providers in VET who provide courses to domestic students only and who offer training in Victoria only or Victoria and Western Australia only.

To register to provide training to international students and in other Australian states and territories you will need to apply with ASQA.

QUALIFICATIONS

Code	Title	Minimum Payable Hours	Maximum Payable Hours
ICT10115	Certificate I in Information, Digital Media and Technology	185	195
ICT20115	Certificate II in Information, Digital Media and Technology	513	540
ICT20215	Certificate II in Telecommunications Network Build and Operate	432	455
ICT20315	Certificate II in Telecommunications Technology	546	575
ICT30118	Certificate III in Information, Digital Media and Technology	675	710
ICT30215	Certificate III in Telecommunications Digital Reception Technology	618	650
ICT30315	Certificate III in Telecommunications Rigging Installation	817	860
ICT30415	Certificate III in Telecommunications Network Build and Operate	603	635
ICT30515	Certificate III in Telecommunications Technology	684	720
ICT40118	Certificate IV in Information Technology	941	990
ICT40215	Certificate IV in Information Technology Support	893	940
ICT40315	Certificate IV in Web-Based Technologies	703	740
ICT40418	Certificate IV in Information Technology Networking	779	820
ICT40518	Certificate IV in Programming	798	840
ICT40815	Certificate IV in Digital Media Technologies	746	785
ICT40915	Certificate IV in Digital and Interactive Games	727	765
ICT41015	Certificate IV in Computer Systems Technology	969	1020
ICT41115	Certificate IV in Telecommunications Network Design	684	720
ICT41215	Certificate IV in Telecommunications Engineering Technology	665	700
ICT50118	Diploma of Information Technology	1178	1240
ICT50215	Diploma of Digital and Interactive Games	732	770
ICT50318	Diploma of Information Technology Systems Administration	827	870
ICT50418	Diploma of Information Technology Networking	1121	1180
ICT50515	Diploma of Database Design and Development	884	930
ICT50615	Diploma of Website Development	955	1005
ICT50718	Diploma of Software Development	789	830

Code	Title	Minimum Payable Hours	Maximum Payable Hours
ICT50818	Diploma of Systems Analysis and Design	793	835
ICT50915	Diploma of Digital Media Technologies	860	905
ICT51015	Diploma of Telecommunications Engineering	660	695
ICT51115	Diploma of Telecommunications Planning and Design	646	680
ICT60115	Advanced Diploma of Information Technology	831	875
ICT60215	Advanced Diploma of Network Security	789	830
ICT60315	Advanced Diploma of Information Technology Business Analysis	608	640
ICT60415	Advanced Diploma of Information Technology Project Management	684	720
ICT60515	Advanced Diploma of Computer Systems Technology	1178	1240
ICT60615	Advanced Diploma of Telecommunications Network Engineering	532	560
ICT80115	Graduate Certificate in Information Technology and Strategic Management	266	280
ICT80315	Graduate Certificate in Telecommunications	247	260
ICT80415	Graduate Diploma of Telecommunications Network Engineering	494	520
ICT80515	Graduate Diploma of Telecommunications and Strategic Management	551	580
ICT80615	Graduate Certificate in Telecommunications Network Engineering	304	320

UNITS OF COMPETENCY

Unit Code	Unit Title	Nominal Hours
Optical Networks		
ICTBWN301	Perform tests on optical communication system and components	40
ICTBWN302	Install optical fibre splitters in fibre distribution hubs	40
ICTBWN303	Install lead-in module and cable for fibre to the premises	50
ICTBWN304	Work safely with live fibre to test and commission a fibre to the x installation	50
ICTBWN305	Use optical and radio frequency measuring instruments	40
Cabling		
ICTCBL201	Install customer cable support systems	50
ICTCBL202	Place and secure customer cable	45
ICTCBL203	Terminate metallic conductor customer cable	30
ICTCBL204	Install functional and protective telecommunications earthing system	30
ICTCBL205	Joint metallic conductor cable on customer premises	40
ICTCBL206	Alter services to existing cable system	50
ICTCBL207	Haul underground cable	40
ICTCBL208	Splice and terminate optical fibre cable for carriers and service providers	40
ICTCBL209	Joint and terminate coaxial cable	30
ICTCBL210	Install a telecommunications service to a building	50
ICTCBL211	Install an above ground equipment enclosure	45
ICTCBL212	Erect aerial cable supports	40
ICTCBL213	Construct underground telecommunications infrastructure	50
ICTCBL214	Fix aerial cable	50
ICTCBL215	Joint metallic conductor cable in access network	50
ICTCBL219	Apply safe technical work practices for cabling registration when configuring an ADSL circuit	40
ICTCBL220	Install a cable lead-in	30
ICTCBL236	Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule	60
ICTCBL237	Install, maintain and modify customer premises communications cabling: ACMA Open Rule	100
ICTCBL238	Install, maintain and modify customer premises communications cabling: ACMA Lift Rule	40
ICTCBL301	Install, terminate and certify structured cabling installation	50
ICTCBL302	Install and terminate optical fibre cable on customer premises	30
ICTCBL303	Install and terminate coaxial cable	20
ICTCBL304	Perform cable and system test on customer premises	40
ICTCBL305	Hand over cable systems and equipment	40
ICTCBL306	Locate and identify cable system faults	40

Unit Code	Unit Title	Nominal Hours
ICTCBL307	Install underground enclosures and conduit	60
ICTCBL308	Install underground cable	60
ICTCBL309	Construct aerial cable supports	60
ICTCBL310	Install aerial cable	40
ICTCBL311	Install systems and equipment on customer premises	60
ICTCBL312	Cutover new systems and equipment on customer premises	40
ICTCBL313	Modify and cutover cable	45
ICTCBL314	Install network cable equipment	50
ICTCBL315	Maintain cable network	40
ICTCBL316	Install ribbon fibre cable in the FTTX distribution network	60
ICTCBL317	Cut over metallic conductor cable in the access network	35
ICTCBL318	Install and cut over metallic conductor cable to access network cabinet	40
ICTCBL319	Rearrange large size copper cable	40
ICTCBL320	Jumper metallic conductor cable in the access network	30
ICTCBL401	Prepare design drawings and specification for a cable installation	50
ICTCBL402	Schedule and supply cabling installation	35
ICTCBL403	Supervise cabling project	40
ICTCBL404	Test cable bearers	40
ICTCBL405	Remotely locate and identify cable network faults	60
ICTCMP201	Organise and monitor cabling to ensure compliance with regulatory and industry standards	40
ICTCMP202	Perform restricted customer premises broadband cabling work: ACMA Restricted Rule	20
ICTCMP501	Undertake radio communications site audit	45
Database		
ICTDBS403	Create basic databases	40
ICTDBS404	Identify and resolve common database performance problems	30
ICTDBS407	Monitor physical database implementation	50
ICTDBS408	Link an RFID system to a database	60
ICTDBS409	Monitor and administer a database	50
ICTDBS413	Determine database requirements	80
ICTDBS414	Complete database backup and restore	30
ICTDBS415	Build a database	30
ICTDBS501	Monitor and improve knowledge management system	20
ICTDBS502	Design a database	50
ICTDBS503	Create a data warehouse	60
ICTDBS504	Integrate database with a website	25
ICTDBS601	Build a data warehouse	80
ICTDBS602	Develop a knowledge management strategy	80
ICTDBS603	Determine suitability of database functionality and scalability	60
Digital Media		

Unit Code	Unit Title	Nominal Hours
ICTDMT401	Create visual design components for digital media	40
ICTDMT402	Produce interactive animation	60
ICTDMT403	Produce and edit digital images	40
ICTDMT501	Incorporate and edit digital video	50
Digital Reception Technology		
ICTDRE301	Install digital reception equipment	30
ICTDRE302	Locate and rectify digital reception equipment faults	40
ICTDRE303	Install a complex digital reception system	30
ICTDRE304	Design communications wiring systems for customer premises	40
ICTDRE305	Develop integrated digital reception systems	40
ICTDRE401	Integrate customer digital reception equipment	30
ICTDRE402	Integrate data delivery modes	40
Training		
ICTEDU301	Train customers in new technology	40
ICTEDU501	Develop and deliver training associated with new and modified products	60
Game Development		
ICTGAM301	Apply simple modelling techniques	50
ICTGAM302	Design and apply simple textures to digital art	50
ICTGAM303	Review and apply the principles of animation	60
ICTGAM401	Produce an interactive game	60
ICTGAM402	Identify and apply principles of games design and game playing	40
ICTGAM403	Create design documents for interactive games	30
ICTGAM404	Apply artificial intelligence in game development	60
ICTGAM405	Write story and content for digital games	30
ICTGAM406	Create visual design components for interactive games	40
ICTGAM407	Write scripts for interactive games	60
ICTGAM408	Use 3-D animation interface and toolsets	40
ICTGAM409	Create 3-D characters for interactive games	40
ICTGAM410	Develop 3-D components for interactive games	50
ICTGAM412	Design interactive media	40
ICTGAM413	Design and create 3-D digital models	50
ICTGAM414	Create audio for digital games	40
ICTGAM415	Develop simple environments for 3-D games	30
ICTGAM416	Prepare and complete image rendering processes	50
ICTGAM417	Apply digital effects to interactive products	50
ICTGAM418	Use simple modelling for animation	40
ICTGAM419	Build a database to support a computer game	30
ICTGAM501	Create design concepts for digital games and 3-D media	30
ICTGAM503	Create a complex 3-D interactive computer game	60
ICTGAM504	Manage interactive media production	40

Unit Code	Unit Title	Nominal Hours
ICTGAM506	Create complex code for mobile game devices	60
ICTGAM507	Develop intermediate 3-D software for games and interactive media	60
ICTGAM508	Develop complex 3-D software for games and interactive media	60
ICTGAM509	Design interactive 3-D applications for scientific and mathematical modelling	60
ICTGAM510	Prepare games for different platforms and delivery modes	50
ICTGAM511	Manage testing of games and interactive media	30
ICTGAM512	Create and implement designs for a 3-D games environment	50
ICTGAM514	Design and create models for a 3-D and digital effects environment	50
ICTGAM515	Design and create advanced particles, fluids and bodies for 3-D digital effects	50
ICTGAM516	Animate a 3-D character for digital games	40
ICTGAM517	Produce a digital animation sequence	60
ICTGAM518	Animate physical attributes of models and elements	30
ICTGAM519	Manage technical art and rigging in 3-D animation	50
ICTGAM520	Create and combine 3-D digital games and components	30
ICTGAM521	Create interactive 3-D environments for digital games	30
ICTGAM522	Complete digital editing for the 3-D and digital effects environment	20
ICTGAM523	Collaborate in the design of 3-D game levels and environments	40
ICTGAM524	Integrate multiple data sources into interactive 3-D environments	30
ICTGAM525	Apply digital texturing for the 3-D environment in digital games	30
ICTGAM526	Create complex 3-D characters for games	60
ICTGAM527	Integrate database with online game	30
ICTGAM528	Create games for mobile devices	60
ICTGAM529	Analyse business opportunities in the digital games environment	30
ICTGAM530	Develop and implement physics in a 3-D digital game	40
ICTGAM531	Complete compositing to create elements for the 3-D and digital effects environment	40
General ICT		
ICTICT101	Operate a personal computer	30
ICTICT102	Operate word-processing applications	30
ICTICT103	Use, communicate and search securely on the internet	50
ICTICT104	Use digital devices	30
ICTICT105	Operate spreadsheet applications	30
ICTICT106	Operate presentation packages	25
ICTICT107	Use personal productivity tools	20
ICTICT108	Use digital literacy skills to access the internet	20
ICTICT201	Use computer operating systems and hardware	60
ICTICT202	Work and communicate effectively in an ICT environment	40
ICTICT203	Operate application software packages	60
ICTICT204	Operate a digital media technology package	40

Unit Code	Unit Title	Nominal Hours
ICTICT205	Design basic organisational documents using computing packages	40
ICTICT206	Install software applications	20
ICTICT207	Integrate commercial computing packages	60
ICTICT208	Operate accounting applications	40
ICTICT209	Interact with ICT clients	20
ICTICT210	Operate database applications	40
ICTICT211	Identify and use basic current industry specific technologies	40
ICTICT212	Incorporate Indigenous needs and perspectives into ICT environment	20
ICTICT301	Create user documentation	20
ICTICT302	Install and optimise operating system software	20
ICTICT303	Connect internal hardware components	20
ICTICT304	Implement system software changes	40
ICTICT305	Identify and use current industry specific technologies	60
ICTICT306	Migrate to new technology	20
ICTICT307	Customise packaged software applications for clients	80
ICTICT308	Use advanced features of computer applications	40
ICTICT401	Determine and confirm client business requirements	40
ICTICT402	Determine project specifications and secure client agreement	20
ICTICT403	Apply software development methodologies	20
ICTICT404	Use online learning tools	30
ICTICT405	Develop detailed technical design	60
ICTICT406	Build a graphical user interface	20
ICTICT407	Maintain website information standards	30
ICTICT408	Create technical documentation	20
ICTICT409	Develop macros and templates for clients using standard products	60
ICTICT410	Conduct post-implementation ICT system reviews	30
ICTICT411	Select and employ software and hardware testing tools	40
ICTICT412	Coordinate and maintain ICT work teams	20
ICTICT413	Relate to clients on a business level	40
ICTICT415	Provide one-to-one instruction	20
ICTICT416	Contribute to the development of strategic plans	40
ICTICT418	Contribute to copyright, ethics and privacy in an ICT environment	40
ICTICT419	Work effectively in the digital media industry	30
ICTICT420	Develop client user interface	40
ICTICT421	Connect, maintain and configure hardware components	40
ICTICT422	Participate in ICT services	20
ICTICT424	Address cyber security requirements	80
ICTICT425	Implement WHS, environmental sustainability and anti- discrimination practices in an ICT workplace	50
ICTICT426	Identify and evaluate emerging technologies and practices	60

Unit Code	Unit Title	Nominal Hours
ICTICT427	Identify, evaluate and apply current industry-specific technologies to meet organisational needs	60
ICTICT428	Select cloud storage solutions	40
ICTICT501	Research and review hardware technology options for organisations	20
ICTICT502	Develop detailed component specifications from project specifications	40
ICTICT503	Validate quality and completeness of system design specifications	20
ICTICT504	Confirm transition strategy for a new system	10
ICTICT505	Determine acceptable developers for projects	30
ICTICT506	Implement process re-engineering strategies	20
ICTICT507	Select new technology models for business	20
ICTICT508	Evaluate vendor products and equipment	20
ICTICT509	Gather data to identify business requirements	30
ICTICT510	Determine appropriate ICT strategies and solutions	40
ICTICT512	Plan process re-engineering strategies for business	30
ICTICT514	Identify and manage the implementation of current industry specific technologies	60
ICTICT515	Verify client business requirements	40
ICTICT516	Test telecommunications network using virtual instruments	60
ICTICT517	Match ICT needs with the strategic direction of the organisation	50
ICTICT601	Develop ICT strategic and action plans	30
ICTICT602	Develop contracts and manage contracted performance	30
ICTICT603	Manage the use of appropriate development methodologies	30
ICTICT604	Identify and implement business innovation	60
ICTICT605	Implement a knowledge management strategy	30
ICTICT606	Develop communities of practice	30
ICTICT608	Interact with clients on a business level	40
ICTICT609	Lead the evaluation and implementation of current industry specific technologies	80
ICTICT610	Manage copyright, ethics and privacy in an ICT environment	30
ICTICT801	Lead research into identifying new marketplace opportunities	80
ICTICT802	Direct ICT services	80
ICTICT803	Endorse business plan components for a new initiative	80
ICTICT804	Direct ICT in a supply chain	80
ICTICT805	Direct ICT procurement	80
ICTICT806	Direct outsourced ICT services	80
ICTICT807	Direct research and business response to new ICT technology	80
ICTICT808	Direct the development of a knowledge management strategy for a business	80
ICTICT809	Facilitate business analysis	80
ICTICT810	Synchronise ICT projects	80
ICTICT811	Manage an information architecture project	80
ICTICT812	Develop a business intelligence framework	80

Unit Code	Unit Title	Nominal Hours
ICTICT813	Manage ICT services	80
ICTICT814	Develop cloud computing strategies for a business	40
ICTICT815	Manage automated ICT system applications using enterprise wide operating system	50
Network Planning		
ICTNPL401	Apply business acumen to network planning	50
ICTNPL402	Plan the deployment of access network architectures	50
ICTNPL403	Evaluate the capability of access networks	50
ICTNPL404	Evaluate the planning requirements for provisioning a telecommunications building facility	50
ICTNPL405	Develop provisioning of telecommunications building works project	50
ICTNPL406	Evaluate core network architectures	50
ICTNPL407	Plan the deployment of core network	50
ICTNPL408	Produce planning specifications for end to end service delivery	50
ICTNPL409	Apply knowledge of regulation and legislation for the telecommunications industry	60
ICTNPL410	Plan the telecommunications access network for an estate	60
ICTNPL411	Apply compliance requirements to telecommunications network	70
ICTNPL501	Develop planning strategies for core network design	50
ICTNPL502	Develop planning strategies for access network design	60
ICTNPL503	Apply service measures and demand forecasting to products and services planning	50
ICTNPL504	Develop planning strategies for building environment design	50
ICTNPL601	Plan the development and growth of the telecommunications network	70
ICTNPL602	Forecast service demand	60
ICTNPL603	Undertake network performance analysis	90
Networking		
ICTNWK301	Provide network systems administration	60
ICTNWK302	Determine and action network problems	50
ICTNWK303	Configure and administer a network operating system	70
ICTNWK304	Administer network peripherals	20
ICTNWK305	Install and manage network protocols	40
ICTNWK306	Evaluate characteristics of cloud computing solutions and services	40
ICTNWK401	Install and manage a server	40
ICTNWK403	Manage network and data integrity	40
ICTNWK404	Install, operate and troubleshoot a small enterprise branch network	60
ICTNWK405	Build a small wireless local area network	20
ICTNWK407	Install and configure client-server applications and services	40
ICTNWK408	Configure a desktop environment	40
ICTNWK409	Create scripts for networking	60

Unit Code	Unit Title	Nominal Hours
ICTNWK410	Install hardware to a network	40
ICTNWK411	Deploy software to networked computers	40
ICTNWK412	Create network documentation	40
ICTNWK414	Create a common gateway interface script	40
ICTNWK416	Build security into virtual private networks	20
ICTNWK417	Build an enterprise wireless network	80
ICTNWK418	Implement backbone technologies in a local area network	40
ICTNWK419	Identify and use current virtualisation technologies	40
ICTNWK420	Install and configure virtual machines	50
ICTNWK421	Install, configure and test network security	50
ICTNWK502	Implement secure encryption technologies	20
ICTNWK503	Install and maintain valid authentication processes	25
ICTNWK504	Design and implement an integrated server solution	50
ICTNWK505	Design, build and test a network server	50
ICTNWK506	Configure, verify and troubleshoot WAN links and IP services in a medium enterprise network	90
ICTNWK507	Install, operate and troubleshoot medium enterprise routers	120
ICTNWK508	Install, operate and troubleshoot medium enterprise switches	90
ICTNWK509	Design and implement a security perimeter for ICT networks	60
ICTNWK510	Develop, implement and evaluate system and application security	60
ICTNWK511	Manage network security	80
ICTNWK513	Manage system security	50
ICTNWK514	Model preferred system solutions	30
ICTNWK515	Develop configuration management protocols	30
ICTNWK516	Determine best-fit topology for a local network	20
ICTNWK517	Determine best-fit topology for a wide area network	20
ICTNWK518	Design an enterprise wireless local area network	30
ICTNWK519	Design an ICT security framework	30
ICTNWK520	Design ICT system security controls	30
ICTNWK521	Install, configure and test a payment gateway	30
ICTNWK522	Build decks using wireless markup language	30
ICTNWK524	Install and configure network access storage devices	40
ICTNWK525	Configure an enterprise virtual computing environment	60
ICTNWK527	Manage an enterprise virtual computing environment	60
ICTNWK529	Install and manage complex ICT networks	100
ICTNWK531	Configure an internet gateway	40
ICTNWK532	Identify and resolve network problems	50
ICTNWK533	Configure and manage advanced virtual computing environments	40
ICTNWK534	Monitor and troubleshoot virtual computing environments	40
ICTNWK535	Install an enterprise virtual computing environment	60

Unit Code	Unit Title	Nominal Hours
ICTNWK536	Plan, implement and test enterprise communication solutions	80
ICTNWK601	Design and implement a security system	90
ICTNWK602	Plan, configure and test advanced server-based security	80
ICTNWK603	Plan, configure and test advanced internetwork routing solutions	120
ICTNWK604	Plan and configure advanced internetwork switching solutions	120
ICTNWK605	Design and configure secure integrated wireless systems	40
ICTNWK606	Implement voice applications over secure wireless networks	40
ICTNWK607	Design and implement wireless network security	60
ICTNWK608	Configure network devices for a secure network infrastructure	40
ICTNWK609	Configure and manage intrusion prevention system on network sensors	40
ICTNWK610	Design and build integrated VoIP networks	50
ICTNWK611	Configure call processing network elements for secure VoIP networks	40
ICTNWK612	Plan and manage troubleshooting advanced integrated IP networks	120
ICTNWK613	Develop plans to manage structured troubleshooting process of enterprise networks	40
ICTNWK614	Manage ICT security	80
ICTNWK615	Design and configure desktop virtualisation	80
ICTNWK616	Manage security, privacy and compliance of cloud service deployment	40
ICTNWK617	Configure and manage a storage area network	50
Optical and Network Engineering		
ICTOPN401	Install and test a dense wavelength division multiplexing system	60
ICTOPN402	Use advanced optical test equipment	50
ICTOPN403	Prepare activity plans and specifications for a fibre to the x installation	60
ICTOPN501	Plan and configure dense wavelength division multiplexing systems	60
ICTOPN502	Perform acceptance and commissioning tests on optical network	50
ICTOPN503	Plan for an optical system upgrade and cut over	60
ICTOPN504	Test and commission a dense wavelength division multiplexing transmission system	50
ICTOPN505	Test the performance of specialised optical devices	45
ICTOPN506	Analyse and integrate specialised optical devices in the network	60
ICTOPN601	Manage optical ethernet transmission	60
ICTOPN602	Manage dense wavelength division multiplexing transmission system	60
ICTOPN603	Design a dense wavelength division multiplexing system	50
ICTOPN604	Analyse optical transmission systems	50
Project Management		
ICTPMG201	Prepare site for support installation	45
ICTPMG202	Plan, organise and undertake work activities	20
ICTPMG401	Support small scale ICT projects	60
ICTPMG402	Schedule installation of customer premises equipment	20
ICTPMG403	Manage the delivery of network infrastructure	60

Unit Code	Unit Title	Nominal Hours
ICTPMG501	Manage ICT projects	80
ICTPMG502	Develop customer premises equipment installation project plans	60
ICTPMG503	Prepare a project brief	60
ICTPMG504	Prepare project specifications	60
ICTPMG601	Establish ICT project governance	40
ICTPMG602	Manage ICT project initiation	40
ICTPMG603	Manage ICT project planning	40
ICTPMG604	Manage ICT project delivery	40
ICTPMG605	Manage ICT project closure	40
ICTPMG606	Manage ICT project quality	40
ICTPMG607	Manage and control ICT project risks	40
ICTPMG608	Manage ICT project systems implementation	40
ICTPMG609	Plan and direct complex ICT projects	80
ICTPMG610	Develop a project management plan	70
ICTPMG611	Prepare a detailed design brief	40
ICTPMG801	Manage a telecommunications workplace	50
ICTPMG802	Manage a telecommunications project	50
ICTPMG803	Undertake a telecommunications project	50
ICTPMG804	Evaluate and use telecommunications management networks	80
Programming and software development		
ICTPRG301	Apply introductory programming techniques	40
ICTPRG401	Maintain open-source code programs	20
ICTPRG402	Apply query language	60
ICTPRG403	Develop data-driven applications	60
ICTPRG404	Test applications	50
ICTPRG405	Automate processes	40
ICTPRG407	Write script for software applications	40
ICTPRG409	Develop mobile applications	50
ICTPRG410	Build a user interface	50
ICTPRG412	Configure and maintain databases	50
ICTPRG413	Use a library or pre-existing components	40
ICTPRG414	Apply introductory programming skills in another language	60
ICTPRG415	Apply skills in object-oriented design	40
ICTPRG416	Manage a software component re-use library	40
ICTPRG417	Apply mathematical techniques for software development	30
ICTPRG418	Apply intermediate programming skills in another language	80
ICTPRG419	Analyse software requirements	60
ICTPRG425	Use structured query language	60
ICTPRG426	Prepare software development review	30
ICTPRG427	Use XML effectively	50
ICTPRG428	Use regular expressions in programming languages	40

Unit Code	Unit Title	Nominal Hours
ICTPRG430	Apply introductory object- oriented language skills	60
ICTPRG502	Manage a project using software management tools	60
ICTPRG503	Debug and monitor applications	40
ICTPRG504	Deploy an application to a production environment	40
ICTPRG505	Build advanced user interface	60
ICTPRG506	Design application architecture	40
ICTPRG507	Implement security for applications	50
ICTPRG508	Create mashups	50
ICTPRG509	Build using rapid application development	40
ICTPRG510	Maintain custom software	40
ICTPRG511	Monitor and support data conversion to new ICT system	10
ICTPRG512	Prepare for the build phase of an ICT system	20
ICTPRG513	Coordinate the build phase of an ICT system	20
ICTPRG515	Review developed software	30
ICTPRG516	Develop integration blueprint for ICT systems	20
ICTPRG517	Install, test and evaluate pilot version of ICT system	20
ICTPRG518	Monitor the system pilot	20
ICTPRG520	Validate an application design against specifications	40
ICTPRG523	Apply advanced programming skills in another language	80
ICTPRG524	Develop high-level object-oriented class specifications	60
ICTPRG525	Build Java applets	30
ICTPRG526	Maintain functionality of legacy code programs	40
ICTPRG527	Apply intermediate object-oriented language skills	60
ICTPRG528	Perform ICT data conversion	20
ICTPRG529	Apply testing techniques for software development	40
ICTPRG531	Prepare for application development using current methods	30
ICTPRG532	Apply advanced object-oriented language skills	80
ICTPRG601	Develop advanced mobile multi-touch applications	80
ICTPRG602	Manage the development of technical solutions from business specifications	40
ICTPRG604	Create cloud computing services	60
Product Training		
ICTPRO501	Develop training, marketing and sales resources for telecommunications products	60
Radio Frequency Networks		
ICTRFN201	Install a satellite antenna	30
ICTRFN202	Install a terrestrial antenna	30
ICTRFN301	Install a radio communications antenna and feedline	40
ICTRFN302	Install mobile telecommunications in motor vehicles	60
ICTRFN303	Install WiMAX customer premises equipment broadband wireless access equipment	40
ICTRFN304	Construct and test a radio communications device	60

Unit Code	Unit Title	Nominal Hours
ICTRFN305	Operate and maintain radio communications technical instruments and field equipment	45
ICTRFN401	Conduct radio frequency measurements	40
ICTRFN402	Select an antenna system for radio communications	30
ICTRFN403	Test and repair cellular network equipment	60
ICTRFN404	Undertake radio communications signals monitoring	45
ICTRFN405	Install radio communications base station equipment	50
ICTRFN406	Maintain hybrid fibre coaxial broadband cable network	50
ICTRFN501	Test cellular handset enhancements and international roaming agreements	50
ICTRFN502	Test and measure cellular phone and network equipment performance	50
ICTRFN503	Evaluate and analyse radio frequency signal coverage plots	45
ICTRFN601	Monitor the capacity of and recommend changes to the cellular mobile network	60
ICTRFN602	Produce and evaluate architecture designs for WiMAX networks	80
ICTRFN801	Produce a radio link budget	50
ICTRFN802	Analyse a cellular mobile network system	70
ICTRFN803	Analyse a satellite communications system	60
Systems analysis and design		
ICTSAD401	Develop and present feasibility reports	30
ICTSAD501	Model data objects	30
ICTSAD502	Model data processes	30
ICTSAD503	Minimise risk of new technologies to business solutions	30
ICTSAD504	Implement quality assurance processes for business solutions	30
ICTSAD505	Develop technical requirements for business solutions	30
ICTSAD506	Produce a feasibility report	30
ICTSAD601	Perform ICT-focused enterprise analysis	40
ICTSAD602	Conduct knowledge audits	40
ICTSAD603	Plan and monitor business analysis activities in an ICT environment	40
ICTSAD604	Manage and communicate ICT solutions	40
ICTSAD605	Elicit ICT requirements	40
ICTSAD606	Analyse stakeholder requirements	40
ICTSAD607	Manage assessment and validation of ICT solutions	40
Systems administration		
ICTSAS201	Maintain inventories for equipment, software and documentation	10
ICTSAS202	Apply problem-solving techniques to routine ICT malfunctions	20
ICTSAS203	Connect hardware peripherals	20
ICTSAS204	Record client support requirements	10
ICTSAS205	Maintain ICT system integrity	20
ICTSAS206	Detect and protect from spam and destructive software	10
ICTSAS207	Protect and secure information assets	20

Unit Code	Unit Title	Nominal Hours
ICTSAS208	Maintain ICT equipment and consumables	20
ICTSAS209	Connect and use a home based local wireless network	30
ICTSAS303	Care for computer hardware	20
ICTSAS304	Provide basic system administration	20
ICTSAS305	Provide ICT advice to clients	40
ICTSAS306	Maintain equipment and software	20
ICTSAS307	Install, configure and secure a small office or home office network	50
ICTSAS308	Run standard diagnostic tests	40
ICTSAS402	Implement configuration management strategies	30
ICTSAS403	Review site environmental factors prior to ICT system implementation	20
ICTSAS404	Acquire ICT system components	10
ICTSAS406	Implement and hand over system components	20
ICTSAS407	Conduct pre-installation audit for software installation	20
ICTSAS408	Complete data transition in data migration process	20
ICTSAS409	Manage risks involving ICT systems and technology	20
ICTSAS410	Identify and resolve client ICT problems	40
ICTSAS411	Assist with policy development for client support procedures	20
ICTSAS412	Action change requests	40
ICTSAS413	Manage resolution of system faults on a live system	40
ICTSAS414	Evaluate system status	20
ICTSAS415	Optimise ICT system performance	30
ICTSAS416	Implement maintenance procedures	10
ICTSAS417	Undertake ICT system capacity planning	50
ICTSAS418	Monitor and administer security of an ICT system	30
ICTSAS419	Support system software	50
ICTSAS420	Provide first-level remote help desk support	30
ICTSAS421	Support users and troubleshoot desktop applications	20
ICTSAS422	Scope implementation requirements	20
ICTSAS424	Support different operating systems	40
ICTSAS425	Configure and troubleshoot operating system software	40
ICTSAS426	Locate and troubleshoot ICT equipment, system and software faults	40
ICTSAS501	Develop, implement and evaluate an incident response plan	30
ICTSAS502	Establish and maintain client user liaison	20
ICTSAS504	Develop and conduct client acceptance test	20
ICTSAS505	Review and update disaster recovery and contingency plans	30
ICTSAS506	Update ICT system operational procedures	30
ICTSAS507	Implement and evaluate systems for regulatory and standards compliance	20
ICTSAS509	Provide client ICT support services	20
ICTSAS510	Review and develop ICT maintenance strategy	30

Unit Code	Unit Title	Nominal Hours
ICTSAS511	Prioritise ICT change requests	20
ICTSAS512	Review and manage delivery of maintenance services	20
ICTSAS517	Use network tools	50
ICTSAS518	Install and upgrade operating systems	50
ICTSAS519	Perform systems tests	30
ICTSAS520	Develop detailed test plans	30
ICTSAS521	Perform integration tests	30
ICTSAS522	Manage the testing process	20
ICTSAS523	Perform stress and load tests on integrated platforms	30
ICTSAS601	Implement change management processes	30
Small Business		
ICTSMB401	Set up and operate a contractor business	40
ICTSMB402	Operate a contractor business with employees	20
Sustainability		
ICTSUS402	Install and test power saving hardware	60
ICTSUS403	Install and test power management software	50
ICTSUS404	Install thin client applications for power over ethernet	60
ICTSUS501	Implement server virtualisation for a sustainable ICT system	80
ICTSUS601	Integrate sustainability in ICT planning and design projects	55
ICTSUS602	Establish a business case for sustainability and competitive advantage in ICT projects	55
ICTSUS802	Conduct a business case study for integrating sustainability in ICT planning and design projects	80
ICTSUS803	Research strategies using SAP solutions for sustainable economic and environmental outcomes	80
ICTSUS804	Use ICT to improve sustainability outcomes	50
ICTSUS805	Manage improvements in ICT sustainability	55
ICTSUS806	Lead applied research in ICT sustainability	60
ICTSUS807	Conduct and manage a life cycle assessment for sustainability	60
ICTSUS808	Plan and manage virtualisation for ICT sustainability	80
Rigging		
ICTTCR201	Use rigging practices and systems on telecommunications network structures	45
ICTTCR202	Use operational safety in a telecommunications rigging environment	45
ICTTCR203	Use safe rigging practices to climb and perform rescues on telecommunications network structures	45
ICTTCR301	Build a telecommunications radio structure	60
ICTTCR302	Install radio plant and equipment on telecommunications structures	60
ICTTCR303	Protect against electromagnetic radiation and system hazards when working on telecommunications radio sites	40

Unit Code	Unit Title	Nominal Hours
Telecommunications Network Engineering		
ICTTEN201	Use electrical skills in telecommunications work	40
ICTTEN202	Use hand and power tools	40
ICTTEN203	Install and configure a home or small office network	60
ICTTEN204	Install and configure a small to medium business network	60
ICTTEN205	Build and maintain a secure network	80
ICTTEN206	Operate new media software packages	40
ICTTEN207	Install and test internet protocol devices in convergence networks	50
ICTTEN301	Provide infrastructure for telecommunications network equipment	60
ICTTEN302	Install telecommunications network equipment	60
ICTTEN303	Locate, identify and rectify recurrent network faults	50
ICTTEN304	Recover customer premises equipment	30
ICTTEN305	Refurbish customer premises equipment	30
ICTTEN306	Commission an electronic unit	50
ICTTEN307	Repair and replace telecommunications network hardware	60
ICTTEN308	Maintain an electronic system	40
ICTTEN309	Provide infrastructure for telecommunications customer equipment	60
ICTTEN310	Remove and replace electronic circuit boards in carrier equipment	20
ICTTEN311	Inspect, clean and handle optical fibre cable and connectors	20
ICTTEN401	Identify requirements for customer telecommunications equipment	40
ICTTEN402	Estimate and quote for customer telecommunications equipment installation	30
ICTTEN403	Assign a transmission path	40
ICTTEN404	Install and configure a wireless mesh network	60
ICTTEN405	Install configuration programs on PC based customer equipment	50
ICTTEN406	Effect changes to existing customer premises equipment systems and equipment	50
ICTTEN407	Cut over customer premises equipment major upgrades	40
ICTTEN408	Complete equipment and software upgrades	40
ICTTEN409	Commission an electronic system	50
ICTTEN410	Locate, diagnose and rectify faults	50
ICTTEN411	Monitor, analyse and action telecommunications network alarms	60
ICTTEN412	Undertake routine maintenance of the telecommunications network	60
ICTTEN413	Undertake remote diagnosis and repair of network faults	50
ICTTEN414	Repair telecommunication system faults	40
ICTTEN415	Install and configure internet protocol TV in a home network	50
ICTTEN416	Install, configure and test an internet protocol network	50
ICTTEN417	Install, configure and test a router	60
ICTTEN418	Install and test a radio frequency identification system	50
ICTTEN419	Implement and troubleshoot enterprise routers and switches	100
ICTTEN420	Design, install and configure an internetwork	100

Unit Code	Unit Title	Nominal Hours
ICTTEN421	Apply advanced routing protocols to network design	80
ICTTEN422	Configure and troubleshoot advanced network switching	80
ICTTEN423	Install and maintain a wide area network	80
ICTTEN424	Install and configure internet protocol TV in a service provider network	60
ICTTEN425	Design, install and configure a customer smart technology network	50
ICTTEN426	Design network projects	80
ICTTEN427	Conduct site surveys to identify carrier installation requirements	40
ICTTEN428	Prepare design drawings and specification for telecommunications installations	50
ICTTEN429	Estimate and quote for carrier telecommunications equipment installations	30
ICTTEN430	Design infrastructure for telecommunications network installations	50
ICTTEN431	Design dense wavelength division multiplexing installations	60
ICTTEN501	Provide consultancy and technical support in the customer premises equipment sector	60
ICTTEN502	Design a telecommunications project	70
ICTTEN503	Design an electronic system for a telecommunications network	80
ICTTEN504	Acceptance test new systems and equipment	70
ICTTEN505	Commission telecommunications network equipment	70
ICTTEN506	Integrate new systems and equipment into the telecommunications network	80
ICTTEN507	Cut over new and replacement network equipment	60
ICTTEN508	Locate, diagnose and rectify complex faults	60
ICTTEN509	Provide expert advice and support on complex faults	50
ICTTEN510	Undertake planned outage management	40
ICTTEN511	Administer a data communications network	60
ICTTEN512	Design and implement an enterprise voice over internet protocol and a unified communications network	60
ICTTEN513	Install, configure and test a local area network switch	60
ICTTEN514	Install, configure and test a server	60
ICTTEN515	Dimension and design a radio frequency identification system	60
ICTTEN516	Produce technical solutions from business specifications	50
ICTTEN517	Plan a wireless mesh network	60
ICTTEN601	Undertake qualification testing of new or enhanced equipment and systems	75
ICTTEN602	Undertake system administration	75
ICTTEN603	Undertake network traffic management	90
ICTTEN604	Coordinate fault rectification and restoration of service following network outages	60
ICTTEN605	Implement planned network changes with minimal impact to the customer	60
ICTTEN606	Manage a common channel signalling network	60

Unit Code	Unit Title	Nominal Hours
ICTTEN607	Analyse and organise repair of highly complex telecommunications network faults	60
ICTTEN608	Verify new software and hardware releases	50
ICTTEN609	Produce and evaluate architecture designs for convergent cellular mobile networks	80
ICTTEN610	Design and configure an IP-MPLS network with virtual private network tunnelling	80
ICTTEN611	Produce an ICT network architecture design	60
ICTTEN612	Design and manage internet protocol TV in a service provider network	60
ICTTEN801	Plan a transmission network	60
ICTTEN802	Manage alignment of systems with product and technology strategy	40
ICTTEN803	Translate domain and solution architectures into platform requirements and designs	60
ICTTEN804	Manage end to end architectural solutions across multiple domains	60
ICTTEN805	Manage solution architecture and impacts in line with organisational processes	60
ICTTEN806	Manage application layer solutions	60
ICTTEN807	Manage voice, data and internet protocol network solutions	60
ICTTEN808	Manage network testing strategies	60
ICTTEN809	Analyse business specifications to produce technical solutions	60
ICTTEN810	Investigate the application of cloud networks in telecommunications switching	60
ICTTEN811	Evaluate and apply network security	60
ICTTEN812	Evaluate and apply digital signal processing to communications system	60
ICTTEN813	Produce engineering solutions using numerical computations and simulation	60
ICTTEN814	Manage development and application of testing artefacts	60
ICTTEN815	Manage project requirements and process implementations	60
ICTTEN816	Scope project requirements and process solutions	60
Web		
ICTWEB201	Use social media tools for collaboration and engagement	20
ICTWEB302	Build simple websites using commercial programs	40
ICTWEB303	Produce digital images for the web	30
ICTWEB401	Design a website to meet technical requirements	40
ICTWEB402	Confirm accessibility of websites for people with special needs	10
ICTWEB403	Transfer content to a website using commercial packages	20
ICTWEB404	Maintain website performance	30
ICTWEB405	Monitor traffic and compile website traffic reports	15
ICTWEB406	Create website testing procedures	20
ICTWEB407	Conduct operational acceptance tests of websites	20
ICTWEB408	Ensure basic website security	20
ICTWEB410	Apply web authoring tool to convert client data for websites	20

Unit Code	Unit Title	Nominal Hours
ICTWEB411	Produce basic client-side script for dynamic web pages	40
ICTWEB412	Produce interactive web animation	80
ICTWEB413	Optimise search engines	50
ICTWEB414	Design simple web page layouts	50
ICTWEB416	Customise content management system	80
ICTWEB417	Integrate social web technologies	40
ICTWEB418	Use development software and ICT tools to build a basic website	20
ICTWEB419	Develop guidelines for uploading information to a website	20
ICTWEB421	Ensure website content meets technical protocols and standards	30
ICTWEB422	Ensure website access and useability	15
ICTWEB423	Ensure dynamic website security	30
ICTWEB424	Evaluate and select a web hosting service	15
ICTWEB425	Apply structured query language to extract and manipulate data	60
ICTWEB429	Create a markup language document to specification	20
ICTWEB430	Produce server-side script for dynamic web pages	60
ICTWEB431	Create and style simple markup language documents	40
ICTWEB501	Build a dynamic website	60
ICTWEB502	Create dynamic web pages	40
ICTWEB503	Create web-based programs	60
ICTWEB504	Build a document using extensible markup language	30
ICTWEB505	Develop complex web page layouts	40
ICTWEB506	Develop complex cascading style sheets	40
ICTWEB507	Customise a complex ICT content management system	80
ICTWEB508	Develop website information architecture	30
ICTWEB509	Use site server tools for transaction management	20
ICTWEB510	Analyse information and assign meta tags	20
ICTWEB511	Implement quality assurance process for websites	20
ICTWEB512	Administer business websites and servers	30
ICTWEB515	Implement and use web services	50
ICTWEB516	Research and apply emerging web technology trends	80
Work Health and Safety		
ICTWHS201	Provide telecommunications services safely on roofs	50
ICTWHS202	Work safely in a radio frequency electromagnetic radiation environment	40
ICTWHS203	Work safely near power infrastructure	30
ICTWHS204	Follow work health and safety and environmental policies and procedures	40
ICTWOR201	Work effectively in a telecommunications technology team	20
ICTWOR301	Organise resources	20
ICTWOR302	Organise material supply	20
ICTWOR303	Schedule resources	30

Unit Code	Unit Title	Nominal Hours
ICTWOR304	Manage spare parts	20
ICTWOR305	Supervise worksite activities	30
ICTWOR306	Resolve technical enquiries using multiple information systems	40
ICTWOR307	Collect and analyse technical information	30
ICTWOR401	Undertake a civil site survey	20
ICTWOR402	Schedule equipment maintenance	40
<p><i>The following units, superseded and deleted respectively, are still listed on the ICT Release 4.0 TGA unit list To maintain consistency with TGA, they are noted below.</i></p>		
ICTICT423	Select cloud storage strategies	40
ICTWEB301	Create a simple markup language document	30

CONTACTS AND LINKS

Curriculum Maintenance Manager (CMM)		
Business Industries	The CMM Service is provided by Executive Officers, across all industry areas covered by Training Packages. They can assist with questions on payable and nominal hours.	Alan Daniel Executive Officer C/- Chisholm Institute P O Box 684 Dandenong VIC 3175, Ph: (03) 9238 8501 Email: Alan Daniel
Engineering Industries (Electrical/Electronics)	For qualifications/units included in the ICT Training Package as a result of the merger between the ICT and ICT10 Training Packages: ICT20315, ICT30215, ICT30315, ICT30415, ICT30515, ICT41115, ICT41215, ICT51015, ICT51115, ICT60615, ICT80615	George Adda Ph: 03 9286 9880 Email: George Adda C/- Box Hill Institute Private Bag 2014 Box Hill VIC 3128
Skills Service Organisation (SSO)		
PwC's Skills for Australia	This SSO is responsible for developing this ICT Information and Communications Technology Training Package , companion volumes and support material and can be contacted for further information.	PwC's Skills for Australia website can be found here Ph: 1800 714 819 Email: here
National Register for VET in Australia		
Training.gov.au (TGA)	TGA is the Australian governments' official National Register of information on Training Packages, Accredited Courses, qualifications, units of competency and RTOs.	National Register website can be found here .
Australian Government		
Department of Education and Training	The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training.	The Commonwealth Department of Education and Training website can be found here

Victorian State Government		
Department of Education and Training (DET)	DET is responsible for funding and the implementation of Vocational Education and Training (VET) in Victoria, including Apprenticeships and Traineeships policy.	(03) 9637 2000 The Victorian Department of Education and Training website can be found here
National VET Regulatory Authority		
Australian Skills Quality Authority (ASQA)	ASQA is the national regulator for Australia's VET sector.	Info line: 1300 701 801 ASQA's website can be found here
Victorian State VET Regulatory Authority		
Victorian Registration and Qualifications Authority (VRQA)	The VRQA is a statutory authority responsible for the registration and regulation of Victorian RTOs and for the regulation of apprenticeships and traineeships in Victoria.	(03) 9637 2806 VRQA's website can be found here

GLOSSARY

Code	Nationally endorsed Training Package qualification code.
Title	Nationally endorsed Training Package qualification title.
Unit Code	Nationally endorsed Training Package unit of competency code.
Unit Title	Nationally endorsed Training Package unit of competency title.
Payable Hours	The maximum number of hours the Victorian Government will subsidise under the Victorian Training Guarantee for the achievement of the minimum realistic vocational outcome of any qualification, as determined by the qualification packaging rules. The maximum payable hours do not cover every possible combination of core and elective units available for a specific qualification.
Nominal Hours	Nominal hours reflect the anticipated time taken to deliver and assess the outcomes of a unit of competency excluding unsupervised delivery or the time taken for repeated practical application of skills. Nominal hours are determined by the Victorian State Training Authority (DET) and are primarily developed for funding purposes in Victoria.