**Victorian Purchasing Guide**

**for**

**ICT Information and Communications Technology
Training Package**

**Release 8**

**April 2022**

© State of Victoria (Department of Education and Training) 2022.

Copyright of this material is reserved to the Crown in the right of the State of Victoria. This work is licensed under a Creative Commons Attribution-NoDerivs 3.0 Australia licence (See [Creative Commons](http://creativecommons.org/licenses/by-nd/3.0/au/) for more information). You are free to use, copy and distribute to anyone in its original form as long as you attribute Higher Education and Skills, Department of Education and Training (DET) as the author, and you license any derivative work you make available under the same licence.

**Disclaimer**

In compiling the information contained in and accessed through this resource, the Department of Education and Training has used its best endeavours to ensure that the information is correct and current at the time of publication but takes no responsibility for any error, omission or defect therein.

To the extent permitted by law, DET, its employees, agents and consultants exclude all liability for any loss or damage (including indirect, special or consequential loss or damage) arising from the use of, or reliance on the information contained herein, whether caused or not by any negligent act or omission. If any law prohibits the exclusion of such liability, DET limits its liability to the extent permitted by law, for the resupply of the information.

**Third party sites**

This resource may contain links to third party websites and resources. DET is not responsible for the condition or content of these sites or resources as they are not under its control.

Third party material linked from this resource is subject to the copyright conditions of the third party. Users will need to consult the copyright notice of the third party sites for conditions of usage.

Victorian Purchasing Guide ⎯ Release History

**Note**: RTOs should refer to the National Register for the detail of changes made in each Release. (See [National Register](https://training.gov.au/Home/Tga) for more information)

| Training Package Release  | **Date VPGApproved** | Comments |
| --- | --- | --- |
| ICT Information and Communications TechnologyRelease No 8 | 12 April 2022 | This Victorian Purchasing Guide reflects a major release for the ICT Information and Communications Technology Package. The following changes occurred as part of Release 8:* Units of competency: thirty three (33) new and twenty seven (27) revised.

For further information visit [vetnet](https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2). |
| ICT Information and Communications TechnologyRelease No 7.2 | 17 May 2021 | This Victorian Purchasing Guide reflects a minor release for the ICT Information and Communications Technology Package as part of a national Critical Skills for Recovery (post-pandemic) project. The following changes occurred as part of Release 7.2:

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |
| --- |
| Units of competency: |
| * Two (2) new,
 |
| * Twenty-five (25) deleted as per Commonwealth project to remove low/zero enrolment training products
 |

 |

For further information visit [vetnet](https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2) |
| ICT Information and Communications Technology Release 7 | 24 February 2021 | This Victorian Purchasing Guide reflects a major release for the ICT Information and Communications Technology Package. The following changes occurred as part of Release 7:* Qualifications: Eleven (11) updated and all deemed not equivalent. Merging of these qualifications down to three (3) qualifications.
* Skill sets: Addition of seven (7), fifteen (15) updated and three (3) removed.
* Units of competency: Sixty five (65) updated with four (4) being not equivalent and sixty one (61) equivalent. Thirty nine (39) deleted.

For further information visit [vetnet](https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2). |
| ICT Information and Communications Technology Release 6 | N/A | **Version 6.1 of this Victorian Purchasing Guide** corrects errors identified with the nominal hours for seventy-two (72) units of competency in the VPG published on 9 November 2020. Errors in the formulas of the Excel spreadsheet used to develop the VPG were discovered post-publication and have now been corrected. |
| ICT Information and Communications Technology Release 6 | 9 November 2020 | This Victorian Purchasing Guide reflects a major release for the ICT Information and Communications Technology Package. As part of Release 6:* Four qualifications have been updated, all of which are not equivalent - 24 qualifications merged into four qualifications with specialisations.

Six-hundred and seventy-nine (679) units of competency including: Fifty-three (53) new, thirty-six (36) deleted and two hundred and seventy two (272) updated units consisting of seven (7) not equivalent and two hundred and sixty five (265) equivalent. |
| ICT Information and Communications Technology Release 5 | 23 October 2019 | ICT Release 5 includes six updated and recoded qualifications, all of which are not equivalent:* ICT20219 Certificate II in Telecommunications Network Build and Operation
* ICT20319 Certificate II in Telecommunications Technology
* ICT30419 Certificate III in Telecommunications Network Build and Operation
* ICT30519 Certificate III in Telecommunications Technology
* ICT41119 Certificate IV in Telecommunications Network Design
* ICT41219 Certificate IV in Telecommunications Engineering Technology

Also 3 qualifications have been updated, all of which are equivalent:* ICT30118 (2) Certificate III in Information, Digital Media and Technology
* ICT40215 (2) Certificate IV in Information Technology Support
* ICT40418 (2) Certificate IV in Information Technology Networking

The following qualifications have been deleted:* ICT30215 Certificate III in Telecommunications Digital Reception Technology
* ICT30315 Certificate III in Telecommunications Rigging Installation

Changes to units of competence are:* 13 new units of competence
* 42 updated units of competence
	+ 27 remain equivalent
	+ 15 are not equivalent
* 2 units of competence have been deleted.

For further information visit [vetnet](https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2). |
| ICT Information and Communications Technology Release 4 | 17 April 2019 | ICT Release 4 includes nine upgraded and recoded qualifications, all of which are equivalent with the exception of:* ICT40118 Certificate IV in Information Technology

The two qualifications listed below have been superseded by the above qualification:* ICT40615 Certificate IV in Information Technology Testing
* ICT40715 Certificate IV in Systems Analysis and Design

The following qualification is deleted:* ICT80215 Graduate Certificate in Information Technology Sustainability.

Four new units of competency have been created:* 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.

Six units of competency have been deleted:* 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.

For further information visit [vetnet](https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2). |
| ICT Information and Communications Technology Release 3 | September 2016 | Correction to qualification list – ICT20215 included |
| ICT Information and Communications Technology Release 3 | July 2016 | Corrections to maximum payable hours due to incorrect file uploaded for Release 3. |
| ICT Information and Communications Technology Release 3 | 18 April 2016 | This release of the Victorian Purchasing Guide contains:* 2 Revised qualifications
* 6 New Units of Competency
 |
| ICT Information and Communications Technology Release 2 | Not Published | This release of the Victorian Purchasing Guide contains:* 12 Revised qualifications

240 Revised Units of Competency |

**ICT Information and Communications Technology**

**Training Package Release 8
Victorian Purchasing Guide**

**CONTENTS**

[INTRODUCTION 2](#_Toc11847573)

[What is a Victorian Purchasing Guide? 2](#_Toc11847574)

[Registration 2](#_Toc11847575)

[Transition 2](#_Toc11847576)

[QUALIFICATIONS 3](#_Toc11847577)

[UNITS OF COMPETENCY AND NOMINAL HOURS 4](#_Toc11847578)

[CONTACTS AND LINKS 37](#_Toc11847579)

[GLOSSARY 39](#_Toc11847580)

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 Vocational Education and Training (VET) providers who offer courses to domestic students in Victoria only.

ASQA is the regulatory authority responsible for the registration of VET providers who offer training in Victoria, nationally and / or internationally.

Transition

The relationship between new units and any superseded or replaced units from the previous version of **ICT Information and Communication Technology Training Package Release 8** is provided in theTraining PackageCompanionVolume Implementation Guide. (See [Companion Volumes](https://vetnet.education.gov.au/Pages/default.aspx) for more information).

Information regarding transition arrangements can be obtained from the state or national VET Regulatory Authority (see Contacts and Links section).

RTOs must ensure that all training and assessment leading to issuance of qualifications or Statements of Attainment from the **ICT Information and Communication Technology Training Package Release 8** is conducted against the Training Package units of competency and complies with the assessment requirements.

QUALIFICATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Title** | **Minimum Payable Hours** | **Maximum Payable Hours** |
| ICT20120 | Certificate II in Applied Digital Technologies | 466 | 490 |
| ICT20219 | Certificate II in Telecommunications Network Build and Operation | 466 | 490 |
| ICT20319 | Certificate II in Telecommunications Technology | 518 | 545 |
| ICT30120 | Certificate III in Information Technology | 504 | 530 |
| ICT30419 | Certificate III in Telecommunications Network Build and Operation | 603 | 635 |
| ICT30519 | Certificate III in Telecommunications Technology | 684 | 720 |
| ICT40120 | Certificate IV in Information Technology | 893 | 940 |
| ICT41119 | Certificate IV in Telecommunications Network Design | 684 | 720 |
| ICT41219 | Certificate IV in Telecommunications Engineering Technology | 722 | 760 |
| ICT50220 | Diploma of Information Technology | 1216 | 1280 |
| ICT60220 | Advanced Diploma of Information Technology | 770 | 810 |

UNITS OF COMPETENCY AND NOMINAL HOURS

| Unit Code | Unit Title | Nominal Hours |
| --- | --- | --- |
| ICTAII401 | Identify opportunities to apply artificial intelligence, machine learning and deep learning | 40 |
| ICTAII501 | Automate work tasks using machine learning | 60 |
| ICTAII502 | Train and evaluate machine learning models | 60 |
| ICTAII503 | Build natural language processing models and pipelines | 60 |
| ICTAUT401 | Design business process automation solutions | 40 |
| ICTAUT402 | Apply robotic desktop automation | 60 |
| ICTAUT403 | Conduct software quality assurance testing | 30 |
| ICTAUT501 | Manage robotic process automation | 60 |
| ICTAUT502 | Evaluate automated industrial manufacturing processes | 80 |
| ICTBWN302 | Install optical fibre splitters in fibre distribution hubs | 40 |
| ICTBWN303 | Install lead-in module and cable for fibre to the premises | 50 |
| ICTBWN306 | Use radio frequency measuring instruments | 40 |
| ICTBWN307 | Use optical measuring instruments | 40 |
| ICTBWN308 | Work safely on live optical fibre installations | 40 |
| ICTBWN309 | Perform tests on optical communication system and components | 40 |
| ICTCBL205 | Joint metallic conductor cable on customer premises | 40 |
| ICTCBL206 | Alter services to existing cable system | 50 |
| ICTCBL210 | Install a telecommunications service to a building | 50 |
| ICTCBL211 | Install an above ground equipment enclosure | 45 |
| ICTCBL212 | Erect aerial cable supports | 40 |
| ICTCBL219 | Apply safe technical work practices for cabling registration when configuring an ADSL circuit | 40 |
| ICTCBL238 | Install, maintain and modify customer premises communications cabling: ACMA Lift Rule | 40 |
| ICTCBL239 | Install customer cable support systems | 50 |
| ICTCBL240 | Place and secure customer cable | 45 |
| ICTCBL241 | Terminate metallic conductor customer cable | 30 |
| ICTCBL242 | Install functional and protective telecommunications earthing system | 30 |
| ICTCBL246 | Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule | 60 |
| ICTCBL247 | Install, maintain and modify customer premises communications cabling: ACMA Open Rule | 100 |
| ICTCBL248 | Install and terminate hard-line coaxial cable | 40 |
| ICTCBL249 | Haul underground cable for installation and maintenance work | 40 |
| ICTCBL250 | Haul and fix aerial cable | 40 |
| ICTCBL251 | Install aerial and underground cable lead-ins | 30 |
| ICTCBL252 | Joint and terminate coaxial cable | 30 |
| ICTCBL253 | Construct underground telecommunications infrastructure | 50 |
| ICTCBL254 | Joint metallic conductor cable in access network | 50 |
| ICTCBL301 | Install, terminate and certify structured cabling installation | 50 |
| ICTCBL303 | Install and terminate coaxial cable | 20 |
| ICTCBL305 | Hand over cable systems and equipment | 40 |
| ICTCBL306 | Locate and identify cable system faults | 40 |
| ICTCBL311 | Install systems and equipment on customer premises | 60 |
| ICTCBL313 | Modify and cutover cable | 45 |
| ICTCBL314 | Install network cable equipment | 50 |
| ICTCBL316 | Install ribbon fibre cable in the FTTX distribution network | 60 |
| ICTCBL319 | Rearrange large size copper cable | 40 |
| ICTCBL320 | Jumper metallic conductor cable in the access network | 30 |
| ICTCBL322 | Install, test and terminate optical fibre cable on customer premises | 40 |
| ICTCBL323 | Test cables and systems on customer premises | 40 |
| ICTCBL324 | Cut over new systems and equipment on customer premises | 40 |
| ICTCBL325 | Maintain cable network | 40 |
| ICTCBL326 | Cut over metallic conductor cable in the access network | 35 |
| ICTCBL329 | Install underground cable for communications applications | 60 |
| ICTCBL330 | Splice and terminate optical fibre cable for telecommunications projects | 40 |
| ICTCBL331 | Conduct basic identification and fault-finding within cabling networks and customer equipment | 50 |
| ICTCBL332 | Locate, identify and rectify copper cable faults | 40 |
| ICTCBL333 | Install aerial cable for communications applications | 40 |
| ICTCBL334 | Install underground enclosures and conduit | 60 |
| ICTCBL335 | Construct aerial cable supports | 60 |
| ICTCBL336 | Install and cut over metallic conductor cable to access network cabinet | 40 |
| ICTCBL401 | Prepare design drawings and specification for a cable installation | 50 |
| ICTCBL403 | Supervise cabling project | 40 |
| ICTCBL404 | Test cable bearers | 40 |
| ICTCBL405 | Remotely locate and identify cable network faults | 60 |
| ICTCLD301 | Evaluate characteristics of cloud computing solutions and services | 40 |
| ICTCLD401 | Configure cloud services | 60 |
| ICTCLD501 | Develop cloud disaster recovery plans | 40 |
| ICTCLD502 | Design and implement highly-available cloud infrastructure | 80 |
| ICTCLD503 | Implement web-scale cloud infrastructure | 40 |
| ICTCLD504 | Improve cloud-based infrastructure | 60 |
| ICTCLD505 | Implement cloud infrastructure with code | 80 |
| ICTCLD506 | Implement virtual network in cloud environments | 60 |
| ICTCLD507 | Build and deploy resources on cloud platforms | 60 |
| ICTCLD508 | Manage infrastructure in cloud environments | 50 |
| ICTCLD509 | Manage cloud identity and access | 60 |
| ICTCLD510 | Manage cloud threat detection systems | 60 |
| ICTCLD511 | Protect cloud infrastructure and data | 60 |
| ICTCLD512 | Respond to cloud security incidents | 80 |
| ICTCLD513 | Develop cloud-based microservices architecture using containers | 85 |
| ICTCLD514 | Create and test cloud-based serverless applications | 70 |
| ICTCLD515 | Build and deploy cloud-based applications using CI and CD pipelines | 70 |
| ICTCLD601 | Develop cloud computing strategies for businesses | 40 |
| ICTCLD602 | Manage information security compliance of cloud service deployment | 40 |
| ICTCLD603 | Design hybrid cloud-based network architectures | 60 |
| ICTCLD604 | Manage data in cloud environments | 60 |
| ICTCMP201 | Organise and monitor cabling to ensure compliance with regulatory and industry standards | 40 |
| ICTCMP203 | Perform restricted customer premises broadband cabling work: ACMA Restricted Rule | 20 |
| ICTCMP502 | Conduct radio communications site audits | 45 |
| ICTCYS401 | Design and implement network security infrastructure for an organisation | 60 |
| ICTCYS402 | Identify and confirm cyber security incidents | 40 |
| ICTCYS403 | Plan and implement information security strategies for an organisation | 40 |
| ICTCYS404 | Run vulnerability assessments for an organisation | 60 |
| ICTCYS405 | Develop cyber security incident response plans | 60 |
| ICTCYS406 | Respond to cyber security incidents | 40 |
| ICTCYS407 | Gather, analyse and interpret threat data | 40 |
| ICTCYS408 | Research and source cryptocurrency technologies for organisational needs | 30 |
| ICTCYS601 | Create cyber security standards for organisations | 40 |
| ICTCYS602 | Implement cyber security operations | 40 |
| ICTCYS603 | Undertake penetration testing for organisations | 80 |
| ICTCYS604 | Implement best practices for identity management | 40 |
| ICTCYS606 | Evaluate an organisation's compliance with cyber security standards and law | 40 |
| ICTCYS607 | Acquire digital forensic data | 80 |
| ICTCYS608 | Perform cyber security risk assessments | 40 |
| ICTCYS609 | Evaluate threats and vulnerabilities of IoT devices | 40 |
| ICTCYS610 | Protect critical infrastructure for organisations | 40 |
| ICTCYS611 | Configure security devices for organisations | 80 |
| ICTCYS612 | Design and implement virtualised cyber security infrastructure for organisations | 80 |
| ICTCYS613 | Utilise design methodologies for security architecture | 40 |
| ICTCYS614 | Analyse cyber security insider risks and threats and devise recommendations | 80 |
| ICTCYS615 | Detect and respond to cyber security insider risks and threats | 80 |
| ICTDAT401 | Evaluate organisational compliance with data ethics legislation | 40 |
| ICTDAT402 | Clean and verify data | 50 |
| ICTDAT501 | Gather, analyse and verify data from different source inputs | 60 |
| ICTDAT502 | Conduct significance tests | 60 |
| ICTDAT503 | Use unsupervised learning for clustering | 60 |
| ICTDAT601 | Develop data integration strategies | 45 |
| ICTDAT602 | Review data lifecycles | 40 |
| ICTDAT603 | Assess advanced data processes | 50 |
| ICTDBS407 | Monitor physical database implementation | 50 |
| ICTDBS413 | Determine database requirements | 80 |
| ICTDBS414 | Complete database backup and restore | 30 |
| ICTDBS415 | Build a database | 30 |
| ICTDBS416 | Create basic relational databases | 40 |
| ICTDBS417 | Identify and resolve common database performance problems | 30 |
| ICTDBS418 | Monitor and administer databases | 50 |
| ICTDBS503 | Create a data warehouse | 60 |
| ICTDBS505 | Monitor and improve knowledge management systems | 20 |
| ICTDBS506 | Design databases | 50 |
| ICTDBS507 | Integrate databases with websites | 25 |
| ICTDBS604 | Build data warehouses | 80 |
| ICTDBS605 | Develop knowledge management strategies | 80 |
| ICTDBS606 | Determine database functionality and scalability | 60 |
| ICTDMT404 | Create visual design components for digital media | 40 |
| ICTDMT405 | Produce interactive animations | 60 |
| ICTDMT406 | Produce and edit digital images | 40 |
| ICTDMT407 | Incorporate video assets into media presentations | 50 |
| ICTDRE301 | Install digital reception equipment | 30 |
| ICTDRE302 | Locate and rectify digital reception equipment faults | 40 |
| ICTDRE303 | Install a complex digital reception system | 30 |
| ICTDRE305 | Develop integrated digital reception systems | 40 |
| ICTDRE308 | Install a cable broadband multi-dwelling unit system | 40 |
| ICTDRE314 | Design communications wiring systems for customer premises | 40 |
| ICTDRE401 | Integrate customer digital reception equipment | 30 |
| ICTDRE402 | Integrate data delivery modes | 40 |
| ICTDSN401 | Design digital user interfaces | 60 |
| ICTDSN402 | Develop digital user interfaces | 60 |
| ICTDSN403 | Apply innovative thinking and practices in digital environments | 60 |
| ICTEDU301 | Train customers in new technology | 40 |
| ICTGAM304 | Develop three-dimensional (3D) models for digital games | 50 |
| ICTGAM305 | Apply simple textures and shading to three-dimensional (3D) models for digital games | 50 |
| ICTGAM306 | Review and apply traditional animation principles | 60 |
| ICTGAM418 | Use simple modelling for animation | 40 |
| ICTGAM420 | Produce interactive games | 60 |
| ICTGAM421 | Identify and apply games design and game play principles | 40 |
| ICTGAM422 | Create design documents for interactive games | 30 |
| ICTGAM423 | Apply artificial intelligence in game development | 60 |
| ICTGAM424 | Develop story and content in digital games | 30 |
| ICTGAM425 | Create visual design components in interactive games | 40 |
| ICTGAM426 | Write narrative scripts for interactive games | 60 |
| ICTGAM427 | Use 3-D software interface and toolsets | 40 |
| ICTGAM428 | Create 3-D characters for interactive games | 40 |
| ICTGAM429 | Develop 3-D components for interactive games | 50 |
| ICTGAM430 | Design interactive media | 40 |
| ICTGAM431 | Design and create 3-D digital models | 50 |
| ICTGAM432 | Create audio for digital games | 40 |
| ICTGAM433 | Prepare and complete image rendering processes | 50 |
| ICTGAM532 | Create design concepts for digital games and 3-D media | 30 |
| ICTGAM533 | Create complex 3-D interactive games | 60 |
| ICTGAM534 | Manage interactive media productions | 40 |
| ICTGAM535 | Develop complex 3-D software for games and interactive media | 60 |
| ICTGAM536 | Design interactive 3-D applications for scientific and mathematical modelling | 60 |
| ICTGAM537 | Prepare games for different platforms and delivery modes | 50 |
| ICTGAM538 | Manage testing of games and interactive media | 30 |
| ICTGAM539 | Create and implement designs for 3-D games environments | 50 |
| ICTGAM540 | Design and create models for 3-D and digital effects environments | 50 |
| ICTGAM541 | Design and create advanced particles, fluids and bodies for 3-D digital effects | 50 |
| ICTGAM542 | Animate 3-D characters for digital games | 40 |
| ICTGAM543 | Produce digital animation sequences | 60 |
| ICTGAM544 | Animate physical attributes of models and elements | 30 |
| ICTGAM545 | Manage technical art and rigging in 3-D animations | 50 |
| ICTGAM546 | Create and combine 3-D digital games and components | 30 |
| ICTGAM547 | Create interactive 3-D environments for digital games | 30 |
| ICTGAM548 | Complete digital editing for 3-D and digital effects environments | 20 |
| ICTGAM549 | Collaborate in design of 3-D game levels and environments | 40 |
| ICTGAM550 | Integrate multiple data sources into interactive 3-D environments | 30 |
| ICTGAM551 | Apply digital texturing for the 3-D environment in digital games | 30 |
| ICTGAM552 | Create complex 3-D characters for games | 60 |
| ICTGAM553 | Integrate database with online games | 30 |
| ICTGAM554 | Create games for mobile devices | 60 |
| ICTGAM555 | Analyse business opportunities in the digital games environments | 30 |
| ICTGAM556 | Develop and implement physics in 3-D digital games | 40 |
| ICTGAM557 | Complete compositing to create elements for 3-D and digital effects environments | 40 |
| ICTICT213 | Use computer operating systems and hardware | 60 |
| ICTICT214 | Operate application software packages | 60 |
| ICTICT215 | Operate digital media technology packages | 40 |
| ICTICT216 | Design and create basic organisational documents | 40 |
| ICTICT219 | Interact and resolve queries with ICT clients | 20 |
| ICTICT221 | Identify and use specific industry standard technologies | 40 |
| ICTICT222 | Research and share ICT solutions for Indigenous users | 20 |
| ICTICT223 | Install software applications | 20 |
| ICTICT224 | Integrate commercial computing packages | 60 |
| ICTICT225 | Operate accounting applications | 40 |
| ICTICT226 | Operate simple database applications | 40 |
| ICTICT309 | Create ICT user documentation | 20 |
| ICTICT310 | Identify and use industry specific technologies | 60 |
| ICTICT311 | Customise packaged software applications | 80 |
| ICTICT312 | Use advanced features of applications | 40 |
| ICTICT313 | Identify IP, ethics and privacy policies in ICT environments | 50 |
| ICTICT314 | Connect internal hardware components | 20 |
| ICTICT315 | Implement system software changes | 40 |
| ICTICT316 | Implement new technology | 20 |
| ICTICT317 | Maintain standard operating environments | 20 |
| ICTICT318 | Validate test cases and develop proof of concepts | 30 |
| 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 |
| ICTICT427 | Identify, evaluate and apply current industry-specific technologies to meet organisational needs | 60 |
| ICTICT428 | Select cloud storage solutions | 40 |
| ICTICT429 | Determine and confirm client business requirements | 40 |
| ICTICT430 | Apply software development methodologies | 20 |
| ICTICT431 | Use online tools for learning | 30 |
| ICTICT432 | Develop detailed technical design | 60 |
| ICTICT433 | Build graphical user interfaces | 20 |
| ICTICT434 | Maintain website information standards | 30 |
| ICTICT435 | Create technical documentation | 20 |
| ICTICT436 | Develop macros and templates for clients using standard products | 60 |
| ICTICT437 | Conduct post-implementation ICT system reviews | 30 |
| ICTICT438 | Select, configure and deploy software and hardware testing tools | 40 |
| ICTICT440 | Develop service level agreements | 40 |
| ICTICT441 | Provide one-to-one instructions | 20 |
| ICTICT443 | Work collaboratively in the ICT industry | 30 |
| ICTICT444 | Develop client user interfaces | 40 |
| ICTICT445 | Connect and configure devices and hardware components | 40 |
| ICTICT446 | Apply ICT service management principles | 20 |
| ICTICT447 | Work effectively in agile environments | 60 |
| ICTICT448 | Prepare electronic portfolios of work | 35 |
| ICTICT449 | Use version control systems in development environments | 30 |
| ICTICT450 | Identify and use applications for a distributed ledger | 50 |
| ICTICT451 | Comply with IP, ethics and privacy policies in ICT environments | 60 |
| ICTICT452 | Support the implementation of assistive technologies | 35 |
| ICTICT453 | Evaluate accessibility of organisational systems, programs and software | 30 |
| ICTICT454 | Assess organisational systems using assistive technologies | 35 |
| ICTICT517 | Match ICT needs with the strategic direction of the organisation | 50 |
| ICTICT518 | Research and review hardware technology options for organisations | 20 |
| ICTICT519 | Develop detailed component specifications from project specifications | 40 |
| ICTICT520 | Confirm transition strategy for new systems | 10 |
| ICTICT521 | Select new technology supported business model | 20 |
| ICTICT522 | Evaluate vendor products and equipment | 20 |
| ICTICT523 | Gather data to identify business requirements | 30 |
| ICTICT524 | Determine ICT strategies and solutions for organisations | 40 |
| ICTICT525 | Identify and manage the implementation of industry specific technologies | 60 |
| ICTICT526 | Verify client business requirements | 40 |
| ICTICT527 | Develop and maintain blockchain solutions | 80 |
| ICTICT528 | Deploy smart contracts | 40 |
| ICTICT529 | Organise and lead agile projects | 60 |
| ICTICT530 | Design user experience solutions | 80 |
| ICTICT531 | Test network using virtual instruments | 60 |
| ICTICT532 | Apply IP, ethics and privacy in ICT environments | 40 |
| ICTICT533 | Conduct quality audit of IT system design specifications | 20 |
| ICTICT608 | Interact with clients on a business level | 40 |
| ICTICT611 | Develop ICT strategic business plans | 30 |
| ICTICT612 | Develop contracts and manage contract performance | 30 |
| ICTICT613 | Manage the use of development methodologies | 30 |
| ICTICT614 | Identify and implement business innovation | 60 |
| ICTICT615 | Implement knowledge management strategies | 30 |
| ICTICT616 | Develop communities of practice | 30 |
| ICTICT617 | Lead the evaluation and implementation of current industry specific technologies | 80 |
| ICTICT618 | Manage IP, ethics and privacy in ICT environments | 30 |
| ICTICT818 | Develop knowledge management strategies | 80 |
| ICTICT819 | Lead analysis of information and communications technology business strategy | 80 |
| ICTICT822 | Manage automated ICT system applications | 50 |
| ICTIOT501 | Install IoT devices and networks | 50 |
| ICTIOT502 | Program IoT devices | 70 |
| ICTIOT503 | Design and test IoT devices and networks | 40 |
| ICTNPL402 | Plan the deployment of access network architectures | 50 |
| ICTNPL410 | Plan the telecommunications access network for an estate | 60 |
| ICTNPL412 | Apply business acumen to network planning | 50 |
| ICTNPL413 | Evaluate networking regulations and legislation for the telecommunications industry | 60 |
| ICTNWK307 | Provide network systems administration | 60 |
| ICTNWK308 | Determine and action network problems | 50 |
| ICTNWK309 | Configure and administer network operating systems | 70 |
| ICTNWK310 | Administer network peripherals | 20 |
| ICTNWK311 | Install and test network protocols | 40 |
| ICTNWK420 | Install and configure virtual machines | 50 |
| ICTNWK421 | Install, configure and test network security | 50 |
| ICTNWK422 | Install and manage servers | 40 |
| ICTNWK423 | Manage network and data integrity | 40 |
| ICTNWK424 | Install and operate small enterprise branch networks | 60 |
| ICTNWK425 | Build small wireless local area networks | 20 |
| ICTNWK426 | Install and configure client-server applications and services | 40 |
| ICTNWK427 | Configure desktop environments | 40 |
| ICTNWK428 | Create scripts for networking | 60 |
| ICTNWK429 | Install hardware to networks | 40 |
| ICTNWK430 | Deploy software to networked computers | 40 |
| ICTNWK431 | Create network documentation | 40 |
| ICTNWK432 | Build an enterprise wireless network | 80 |
| ICTNWK433 | Install backbone technologies in a local area network | 80 |
| ICTNWK434 | Identify and implement industry standard virtualisation technologies | 40 |
| ICTNWK435 | Create secure virtual private networks | 20 |
| ICTNWK529 | Install and manage complex ICT networks | 100 |
| ICTNWK536 | Plan, implement and test enterprise communication solutions | 80 |
| ICTNWK537 | Implement secure encryption technologies | 20 |
| ICTNWK538 | Install and maintain valid authentication processes | 25 |
| ICTNWK539 | Design and implement integrated server solutions | 50 |
| ICTNWK540 | Design, build and test network servers | 50 |
| ICTNWK541 | Configure, verify and troubleshoot WAN links and IP services | 90 |
| ICTNWK542 | Install, operate and troubleshoot medium enterprise routers | 120 |
| ICTNWK543 | Install, operate and troubleshoot medium enterprise switches | 90 |
| ICTNWK544 | Design and implement a security perimeter for ICT networks | 60 |
| ICTNWK545 | Develop, implement and evaluate systems and applications security | 60 |
| ICTNWK546 | Manage network security | 80 |
| ICTNWK547 | Manage system security on operational systems | 50 |
| ICTNWK548 | Model preferred system solutions | 30 |
| ICTNWK549 | Design ICT security frameworks | 30 |
| ICTNWK550 | Design ICT system security controls | 30 |
| ICTNWK551 | Build decks using wireless markup language | 30 |
| ICTNWK552 | Install and configure network access storage devices | 40 |
| ICTNWK553 | Configure enterprise virtual computing environments | 60 |
| ICTNWK554 | Manage enterprise virtual computing environments | 60 |
| ICTNWK555 | Determine best-fit topologies for local networks | 30 |
| ICTNWK556 | Identify and resolve network problems | 50 |
| ICTNWK557 | Configure and manage advanced virtual computing environments | 40 |
| ICTNWK558 | Monitor and troubleshoot virtual computing environments | 40 |
| ICTNWK559 | Install an enterprise virtual computing environment | 60 |
| ICTNWK560 | Determine best-fit topologies for wide area networks | 30 |
| ICTNWK561 | Design enterprise wireless local area networks | 30 |
| ICTNWK562 | Configure internet gateways | 40 |
| ICTNWK612 | Plan and manage troubleshooting advanced integrated IP networks | 120 |
| ICTNWK615 | Design and configure desktop virtualisation | 80 |
| ICTNWK618 | Design and implement a security system | 90 |
| ICTNWK619 | Plan, configure and test advanced server-based security | 80 |
| ICTNWK620 | Design and implement wireless network security | 60 |
| ICTNWK621 | Configure network devices for a secure network infrastructure | 40 |
| ICTNWK622 | Configure and manage intrusion prevention system on network sensors | 40 |
| ICTNWK623 | Manage ICT security | 80 |
| ICTNWK624 | Configure advanced internetwork routing solutions | 120 |
| ICTNWK625 | Plan and configure advanced internetwork switching solutions | 120 |
| ICTNWK627 | Implement voice applications over secure wireless networks | 40 |
| ICTNWK628 | Design and build integrated VoIP networks | 50 |
| ICTNWK629 | Configure and manage storage area networks | 50 |
| ICTOPN403 | Prepare activity plans and specifications for a fibre to the x installation | 60 |
| ICTOPN404 | Test optical communications systems and components | 50 |
| ICTOPN405 | Install and test a dense wavelength division multiplexing system | 60 |
| ICTOPN507 | Plan and configure dense wavelength division multiplexing optical networks | 60 |
| ICTOPN508 | Perform acceptance and commissioning tests on optical networks | 50 |
| ICTOPN509 | Plan for optical system upgrades | 60 |
| ICTOPN510 | Test and commission dense wavelength division multiplexing transmission systems | 50 |
| ICTOPN511 | Test performance of specialised optical devices | 45 |
| ICTOPN512 | Analyse and integrate specialised optical devices | 60 |
| ICTOPN605 | Manage optical ethernet transmission | 60 |
| ICTOPN606 | Manage dense wavelength division multiplexing transmission systems | 60 |
| ICTOPN607 | Design dense wavelength division multiplexing systems | 50 |
| ICTOPN608 | Analyse optical transmission systems | 50 |
| ICTPMG201 | Prepare site for support installation | 45 |
| ICTPMG202 | Plan, organise and undertake work activities | 20 |
| ICTPMG301 | Contribute as part of an IT project management team | 80 |
| ICTPMG402 | Schedule installation of customer premises equipment | 20 |
| ICTPMG403 | Manage the delivery of network infrastructure | 60 |
| ICTPMG411 | Support small scale ICT projects | 60 |
| ICTPMG505 | Manage ICT projects | 80 |
| ICTPMG506 | Prepare network project briefs | 60 |
| ICTPMG612 | Manage ICT project initiation | 40 |
| ICTPMG613 | Manage ICT project planning | 50 |
| ICTPMG614 | Manage ICT project delivery | 40 |
| ICTPMG615 | Manage ICT project closure | 40 |
| ICTPMG616 | Manage ICT project systems implementation | 40 |
| ICTPMG617 | Plan and direct complex ICT projects | 40 |
| ICTPRG302 | Apply introductory programming techniques | 40 |
| ICTPRG429 | Maintain open-source code programs | 20 |
| ICTPRG430 | Apply introductory object-oriented language skills | 60 |
| ICTPRG431 | Apply query language in relational databases | 60 |
| ICTPRG432 | Develop data-driven applications | 60 |
| ICTPRG433 | Test software developments | 50 |
| ICTPRG434 | Automate processes | 40 |
| ICTPRG435 | Write scripts for software applications | 40 |
| ICTPRG436 | Develop mobile applications | 50 |
| ICTPRG437 | Build a user interface | 50 |
| ICTPRG438 | Configure and maintain databases | 50 |
| ICTPRG439 | Use pre-existing components | 40 |
| ICTPRG440 | Apply introductory programming skills in different languages | 60 |
| ICTPRG441 | Apply skills in object-oriented design | 40 |
| ICTPRG442 | Apply mathematical techniques for software development | 30 |
| ICTPRG443 | Apply intermediate programming skills in different languages | 80 |
| ICTPRG444 | Analyse software requirements | 60 |
| ICTPRG446 | Prepare software development review | 30 |
| ICTPRG447 | Use extensible markup language | 50 |
| ICTPRG530 | Manage projects using software management tools | 60 |
| ICTPRG531 | Prepare for application development using current methods | 30 |
| ICTPRG532 | Apply advanced object-oriented language skills | 80 |
| ICTPRG533 | Debug and monitor applications | 40 |
| ICTPRG534 | Deploy applications to production environments | 40 |
| ICTPRG535 | Build advanced user interfaces | 60 |
| ICTPRG536 | Design application architecture | 40 |
| ICTPRG537 | Implement security for applications | 50 |
| ICTPRG538 | Create mashups | 50 |
| ICTPRG540 | Maintain custom software | 40 |
| ICTPRG541 | Monitor and support data conversion to new ICT systems | 10 |
| ICTPRG542 | Review developed software | 30 |
| ICTPRG543 | Develop integration blueprint for ICT systems | 20 |
| ICTPRG544 | Install, test and evaluate pilot version of ICT systems | 20 |
| ICTPRG545 | Monitor system pilots | 20 |
| ICTPRG546 | Validate application designs against specifications | 40 |
| ICTPRG547 | Apply advanced programming skills in another language | 80 |
| ICTPRG548 | Develop high-level object-oriented class specifications | 60 |
| ICTPRG549 | Apply intermediate object-oriented language skills | 60 |
| ICTPRG550 | Perform ICT data conversions | 20 |
| ICTPRG551 | Apply testing techniques for software development | 40 |
| ICTPRG553 | Create and develop REST APIs | 60 |
| ICTPRG554 | Manage data persistence using noSQL data stores | 80 |
| ICTPRG555 | Implement Object Relational Mapping Framework for data persistence | 60 |
| ICTPRG556 | Implement and use a model view controller framework | 70 |
| ICTPRG557 | Develop applications using agile methods | 40 |
| ICTPRG603 | Develop advanced mobile multi-touch applications | 80 |
| ICTPRG605 | Manage development of technical solutions from business specifications | 40 |
| ICTPRG614 | Create cloud computing services | 60 |
| ICTRFN201 | Install a satellite antenna | 30 |
| ICTRFN202 | Install a terrestrial antenna | 30 |
| ICTRFN301 | Install a radio communications antenna and feedline | 40 |
| ICTRFN304 | Construct and test a radio communications device | 60 |
| ICTRFN305 | Operate and maintain radio communications technical instruments and field equipment | 45 |
| ICTRFN402 | Select antenna system for radio communications | 30 |
| ICTRFN405 | Install radio communications base station equipment | 50 |
| ICTRFN406 | Maintain hybrid fibre coaxial broadband cable network | 50 |
| ICTRFN407 | Conduct radio frequency measurements | 40 |
| ICTRFN504 | Test cellular handset enhancements and international roaming agreements | 50 |
| ICTRFN505 | Test and measure cellular phone and network equipment performance | 50 |
| ICTRFN506 | Evaluate radio frequency signal coverage plots | 45 |
| ICTRFN603 | Monitor the capacity of and recommend changes to cellular mobile networks | 60 |
| ICTRFN804 | Produce radio link budgets | 50 |
| ICTRFN805 | Analyse cellular mobile network systems | 70 |
| ICTRFN806 | Analyse satellite communications systems | 60 |
| ICTSAD402 | Develop and present ICT feasibility reports | 30 |
| ICTSAD501 | Model data objects | 30 |
| ICTSAD502 | Model data processes | 30 |
| ICTSAD507 | Design and implement quality assurance processes for business solutions | 30 |
| ICTSAD508 | Develop technical requirements for business solutions | 30 |
| ICTSAD509 | Produce ICT feasibility reports | 30 |
| ICTSAD510 | Manage risks when implementing new technologies | 30 |
| ICTSAD604 | Manage and communicate ICT solutions | 40 |
| ICTSAD608 | Perform ICT-focused enterprise analysis | 40 |
| ICTSAD609 | Plan and monitor business analysis activities in an ICT environment | 40 |
| ICTSAD610 | Analyse stakeholder requirements | 40 |
| ICTSAD611 | Manage assessment and validation of ICT solutions | 40 |
| ICTSAD612 | Implement and maintain uses of containerisation | 50 |
| ICTSAD613 | Install and configure container orchestration services | 50 |
| ICTSAD614 | Lead ICT requirements elicitation | 40 |
| ICTSAS210 | Update and maintain hardware, software and documentation inventories | 10 |
| ICTSAS211 | Develop solutions for basic ICT malfunctions and problems | 20 |
| ICTSAS212 | Record the requirements of client support requests | 10 |
| ICTSAS213 | Maintain the integrity of ICT systems | 20 |
| ICTSAS214 | Protect devices from spam and destructive software | 10 |
| ICTSAS215 | Protect and secure information assets | 20 |
| ICTSAS216 | Maintain ICT equipment and replace consumables | 20 |
| ICTSAS217 | Connect a home based local wireless network | 30 |
| ICTSAS218 | Obtain and connect hardware peripherals | 20 |
| ICTSAS305 | Provide ICT advice to clients | 40 |
| ICTSAS308 | Run standard diagnostic tests | 20 |
| ICTSAS309 | Maintain and repair ICT equipment and software | 20 |
| ICTSAS310 | Install, configure and secure a small office or home office network | 50 |
| ICTSAS311 | Maintain computer hardware | 20 |
| ICTSAS312 | Provide basic system administration | 20 |
| ICTSAS428 | Hand over ICT system components to clients | 20 |
| ICTSAS432 | Identify and resolve client ICT problems | 40 |
| ICTSAS433 | Update ICT client support procedures and assist with policy development | 20 |
| ICTSAS434 | Action change requests and present updated ICT system to clients | 50 |
| ICTSAS435 | Resolve system faults on a live system | 40 |
| ICTSAS436 | Evaluate ICT system status | 20 |
| ICTSAS437 | Optimise ICT system performance | 30 |
| ICTSAS438 | Implement maintenance procedures | 10 |
| ICTSAS439 | Analyse ICT system capacity and implement enhancements | 50 |
| ICTSAS440 | Monitor and administer security of ICT systems | 30 |
| ICTSAS441 | Support ICT system software | 50 |
| ICTSAS442 | Provide first-level remote help desk support | 30 |
| ICTSAS443 | Support operating system users and troubleshoot applications | 20 |
| ICTSAS444 | Repair operating systems boot up procedures | 40 |
| ICTSAS445 | Configure and troubleshoot operating system software | 40 |
| ICTSAS446 | Fault find and troubleshoot ICT equipment, hardware and software problems | 40 |
| ICTSAS502 | Establish and maintain client user liaison | 20 |
| ICTSAS506 | Update ICT system operational procedures | 30 |
| ICTSAS512 | Review and manage delivery of maintenance services | 20 |
| 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 |
| ICTSAS524 | Develop, implement and evaluate an incident response plan | 30 |
| ICTSAS525 | Develop and conduct client acceptance tests | 40 |
| ICTSAS526 | Review and update disaster recovery and contingency plans | 30 |
| ICTSAS527 | Manage client problems | 20 |
| ICTSAS528 | Review and develop ICT maintenance strategies | 30 |
| ICTSAS529 | Prioritise ICT change requests | 20 |
| ICTSAS530 | Use network tools | 50 |
| ICTSAS602 | Implement change management processes | 40 |
| ICTSMB401 | Set up and operate a contractor business | 40 |
| 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 |
| ICTSUS502 | Install and test virtual infrastructure | 80 |
| ICTSUS603 | Integrate sustainability in ICT planning and design projects | 55 |
| ICTSUS604 | Prepare business cases for sustainability and competitive advantage in ICT projects | 55 |
| ICTSUS811 | Conduct and manage life cycle assessments for sustainability | 60 |
| ICTSUS812 | Lead applied research in ICT sustainability | 60 |
| ICTTCR203 | Use safe rigging practices to climb and perform rescues on telecommunications network structures | 45 |
| 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 |
| ICTTEN208 | Use electrical skills when working with telecommunications networks | 40 |
| ICTTEN210 | Install underground telecommunications infrastructure | 20 |
| ICTTEN211 | Work effectively in a telecommunications network environment | 30 |
| ICTTEN301 | Provide infrastructure for telecommunications network equipment | 60 |
| ICTTEN310 | Remove and replace electronic circuit boards in carrier equipment | 20 |
| ICTTEN312 | Install telecommunications network equipment | 60 |
| ICTTEN313 | Work on and resolve recurrent network faults | 50 |
| ICTTEN315 | Determine and apply technologies within a telecommunications system | 40 |
| ICTTEN316 | Conduct basic tests and analyses of telecommunications copper cabling | 50 |
| ICTTEN317 | Locate, identify and rectify telecommunications network faults | 40 |
| ICTTEN318 | Inspect, clean and handle optical fibre cable and connectors | 20 |
| ICTTEN320 | Commission an electronic unit | 50 |
| ICTTEN321 | Maintain an electronic system | 40 |
| ICTTEN322 | Provide infrastructure for telecommunications network customer equipment | 60 |
| 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 |
| ICTTEN406 | Effect changes to existing customer premises equipment systems and equipment | 50 |
| 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 |
| 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 |
| 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 |
| 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 |
| ICTTEN432 | Identify requirements for customer telecommunications equipment | 40 |
| ICTTEN433 | Install configuration programs on PC based customer equipment | 50 |
| ICTTEN434 | Install, configure and test internet protocol networks | 50 |
| ICTTEN435 | Solve electrical-based telecommunications circuitry and cabling problems | 40 |
| ICTTEN519 | Design network building projects | 70 |
| ICTTEN520 | Commission network equipment | 70 |
| ICTTEN521 | Integrate network systems and equipment | 80 |
| ICTTEN522 | Cut over new and replacement network equipment | 60 |
| ICTTEN523 | Locate, diagnose and rectify complex system equipment faults | 60 |
| ICTTEN524 | Diagnose and organise repair of complex equipment faults | 50 |
| ICTTEN525 | Install, configure and test local area network switches | 60 |
| ICTTEN526 | Dimension and design a radio frequency identification system | 60 |
| ICTTEN527 | Plan wireless mesh networks | 60 |
| ICTTEN613 | Assess integration of international network equipment into Australian networks | 75 |
| ICTTEN614 | Conduct network system optimisation and administration | 75 |
| ICTTEN615 | Manage network traffic | 90 |
| ICTTEN616 | Rectify client services following network outages and faults | 60 |
| ICTTEN617 | Manage common channel signalling networks | 60 |
| ICTTEN618 | Analyse and organise repair of highly complex networks | 60 |
| ICTTEN619 | Test new software and hardware releases | 50 |
| ICTTEN620 | Produce and evaluate architecture designs for convergent cellular mobile networks | 80 |
| ICTTEN621 | Design and configure IP-MPLS networks with virtual private network tunnelling | 80 |
| ICTTEN622 | Produce ICT network architecture designs | 60 |
| ICTTEN623 | Design and manage internet protocol TV in a service provider network | 60 |
| ICTTEN817 | Plan transmission networks | 60 |
| ICTTEN818 | Align systems with product and technology strategy | 40 |
| ICTTEN819 | Translate domain and solution architectures into platform requirements and designs | 60 |
| ICTTEN820 | Manage end to end architectural solutions across multiple domains | 60 |
| ICTTEN821 | Manage solution architecture and impacts | 60 |
| ICTTEN822 | Manage application layer solutions | 60 |
| ICTTEN823 | Manage voice, data and internet protocol network solutions | 60 |
| ICTTEN824 | Manage network testing strategies | 60 |
| ICTTEN825 | Investigate applications of cloud networks in network switching | 60 |
| ICTTEN826 | Evaluate and apply digital signal processing to communication systems | 60 |
| ICTTEN827 | Produce engineering solutions | 60 |
| ICTTEN828 | Manage development and application of testing artefacts | 60 |
| ICTWEB304 | Build simple web pages | 40 |
| ICTWEB305 | Produce digital images for the web | 40 |
| ICTWEB306 | Develop web presence using social media | 30 |
| ICTWEB430 | Produce server-side script for dynamic web pages | 60 |
| ICTWEB431 | Create and style simple markup language documents | 40 |
| ICTWEB432 | Design website layouts | 40 |
| ICTWEB433 | Confirm accessibility of websites | 10 |
| ICTWEB434 | Transfer content to websites | 20 |
| ICTWEB435 | Maintain website performance | 30 |
| ICTWEB436 | Monitor traffic and compile website traffic reports | 15 |
| ICTWEB437 | Create website testing procedures | 20 |
| ICTWEB438 | Conduct operational acceptance tests of websites | 20 |
| ICTWEB439 | Confirm basic website security | 20 |
| ICTWEB440 | Use web authoring tools | 20 |
| ICTWEB441 | Produce basic client-side script | 40 |
| ICTWEB442 | Produce interactive web animation | 80 |
| ICTWEB443 | Implement search engine optimisations | 50 |
| ICTWEB444 | Create responsive website layouts | 40 |
| ICTWEB445 | Implement content management systems | 80 |
| ICTWEB446 | Integrate social web technologies | 40 |
| ICTWEB447 | Build basic website using development software and ICT tools | 20 |
| ICTWEB448 | Confirm website content meets technical protocols and standards | 30 |
| ICTWEB449 | Confirm website access and useability | 15 |
| ICTWEB450 | Evaluate and select a web hosting service | 15 |
| ICTWEB451 | Apply structured query language in relational databases | 60 |
| ICTWEB452 | Create a markup language document | 20 |
| ICTWEB453 | Optimise websites for mobile devices | 30 |
| ICTWEB513 | Build dynamic websites | 60 |
| ICTWEB514 | Create dynamic web pages | 40 |
| ICTWEB517 | Create web-based programs | 60 |
| ICTWEB518 | Build a document using extensible markup language | 30 |
| ICTWEB519 | Develop complex web page layouts | 40 |
| ICTWEB520 | Develop complex cascading style sheets | 40 |
| ICTWEB521 | Customise complex ICT content management systems | 80 |
| ICTWEB522 | Develop website information architecture | 30 |
| ICTWEB523 | Manage transactions using site server tools | 20 |
| ICTWEB524 | Analyse information and assign meta tags | 20 |
| ICTWEB525 | Implement quality assurance process for websites | 20 |
| ICTWEB526 | Implement and use web services | 50 |
| ICTWEB527 | Research and apply emerging web technology trends | 80 |
| ICTWHS201 | Provide telecommunications services safely on roofs | 50 |
| ICTWHS202 | Work safely in a radio frequency electromagnetic radiation environment | 40 |
| ICTWHS204 | Follow work health and safety and environmental policy and procedures | 40 |
| ICTWHS205 | Work safely near power infrastructure at a telecommunications workplace | 30 |
| ICTWOR202 | Work effectively in the digital and telecommunications industry | 20 |
| ICTWOR301 | Organise resources | 20 |
| ICTWOR302 | Organise material supply | 20 |
| ICTWOR303 | Schedule resources | 30 |
| 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 |
| ICTWOR308 | Provide customer service to telecommunications customers | 40 |
| ICTWOR401 | Undertake a civil site survey | 20 |
| ICTXRE401 | Apply augmented reality solutions in organisations | 60 |
| ICTXRE402 | Apply virtual reality solutions in organisations | 60 |
| ICTXRE403 | Design mixed reality solutions | 60 |

CONTACTS AND LINKS

|  |
| --- |
| **Curriculum Maintenance Manager (CMM)** |
| CMM Business Industries | The CMM Service is provided on behalf of Higher Education and Skills.CMM Service Executive Officers can assist with questions on payable and nominal hours. | Jennifer FleischerExecutive Officer Chisholm Institute Ph: (03) 9238 8501 Email: jennifer.fleischer@chisholm.edu.auC/- PO Box 684 Dandenong VIC 3175 |
| Engineering Industries (Electrical/Electronics) | For electrical/electronics qualifications/units included in the ICT Training Package. | George AddaPh: 03 9286 9880Email: g.adda@bhtafe.edu.au C/- Box Hill InstitutePrivate Bag 2014Box Hill VIC 3128 |
| **Service Skills Organisation (SSO)** |
| SSO Name | This SSO is responsible for developing this **ICT Information and Communications Technology Training Package** and can be contacted for further information.  | PwC’s Skills for Australia website can be found [here](https://www.skillsforaustralia.com/contact-us/)Ph: 1800 714 819Email: here |
| **National Register for VET in Australia** |
| Training.gov.au (TGA) | TGA is the Australian government’s official National Register of information on Training Packages, qualifications, courses, units of competency and RTOs. | See the [National Register](http://training.gov.au/) for more information. |
| **Australian Government** |
| Department of Education, Skills and Employment | The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training.  | See the [Commonwealth Department of Education, Skills and Employment website](https://www.dese.gov.au/skills-and-training) for more information.  |
| **State Government** |
| Department of Education and Training (DET)  | DET is the State Training Authority responsible for supporting implementation of Vocational Education and Training (VET) in Victoria.  | (03) 9637 2000See the [Victorian Department of Education and Training website](http://www.education.vic.gov.au/) for more information. |
| **National VET Regulatory Authority** |
| Australian Skills Quality Authority (ASQA) | ASQA is the national regulator for Australia’s VET sector.  | Info line: 1300 701 801 See the [ASQA website](http://www.asqa.gov.au/) for more information. |
| **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 See the [VRQA website](http://www.vrqa.vic.gov.au/) for more information.  |

GLOSSARY

|  |  |
| --- | --- |
| **Code** | Nationally endorsed Training Package qualification code. |
| **Title** | Nationally endorsed Training Package qualification title. |
| **Unit Code** | Nationally endorsed Training Package unit code. |
| **Unit Title** | Nationally endorsed Training Package unit title. |
| **Maximum Payable Hours** | The maximum number of hours the Victorian Government will subsidise under Skills First funding for the achievement of the minimum realistic vocational outcome of the 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.   Minimum payable hours reflect a calculated minimum number of hours that could deliver a minimum realistic vocational outcome, based on efficiencies of contextualisation and integration. |
| **Scope of Registration** | Scope of registration specifies the AQF qualifications and/or units of competency the training organisation is registered to issue and the industry training and/or assessment services it is registered to provide. |
| **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. |