

# **ICT10 INTEGRATED TELECOMMUNICATIONS TRAINING PACKAGE**

## **VERSION 3**

### **WA NOMINAL HOURS GUIDE**

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

**April 2014**

# CONTENTS

|   |    |
|---|----|
| Foreword.....   | 2  |
| Obtaining the Training Package.....                                     | 3  |
| Transition Arrangements.....  | 4  |
| Nominal Hours .....   | 4  |
| Licensing, Legislative, Regulatory or Certification Considerations..... | 5  |
| National Code of Practice for Induction for Construction Work .....     | 5  |
| National Standard for Licensing Persons Performing High Risk Work.....  | 5  |
| Version Modification History .....                                      | 6  |
| Qualifications and Nominal Hours.....                                   | 10 |
| Units of Competency and Nominal Hours .....                             | 11 |
| Mapping Qualifications.....   | 17 |
| Mapping Units of Competency .....                                       | 18 |
| Traineeships .....  | 22 |

## Foreword

This Guide has been generated to enable the stakeholders in the Integrated Telecommunications Industry in Western Australia to participate in the managed implementation of the National ICT10 Integrated Telecommunications Training Package.

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

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

**Version 3** of the ICT10 Integrated Telecommunications Training Package was released by Training.Gov.Au (TGA) on the **7 February 2014**.

## Obtaining the Training Package

The ICT10 Integrated Telecommunications Training Package can be purchased from:



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

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

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

## Transition Arrangements

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

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

## Nominal Hours

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

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

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

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

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

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

## Licensing, Legislative, Regulatory or Certification Considerations

The telecommunications regulator is the Australian Communications and Media Authority (ACMA). The legislation covering ACMA activities involves a broad range of national activities from carrier licensing to use of radio spectrum and the most relevant issue for ICT10 qualifications is the ACMA Cabling Provider Rules Registration.

### Cabling

The completion of unit ICTWHS2170B and the set of the following four units ICTCBL2005B, ICTCBL2006B, ICTCBL2008B and ICTCMP2022B that meet the Australian Communications and Media Authority (ACMA) requirements for Cabling Provider Rules (CPR) **restricted** registration

For cablers with restricted CPR qualifications there will be a requirement for the specialised competency unit ICTCMP2239B Perform restricted customer premises broadband cabling work: ACMA Restricted Rule, to be achieved when working on specialised broadband cabling.

The completion of unit ICTWHS2170B and the unit set of ICTCBL2136B and ICTCBL2137B meets the ACMA requirements for Cabling Provider Rules (CPR) **open** registration.

All training programs must be undertaken with reference to the regulatory regime of the prevailing statutory authority for cabling (currently ACMA) and rigging.

### National Code of Practice for Induction for Construction Work

Some cabling and installation work may fall within the definition of construction work. If so, people entering the construction site are required to complete the general induction training program specified by the National Code of Practice for Induction Training for Construction Work (Australian Safety Compensation Council, May 2007).

Achievement of the unit CPCCOHS1001A Work safely in the construction industry from the CPC08 Construction and Plumbing Services Integrated Framework Training Package fulfils this requirement.

### National Standard for Licensing Persons Performing High Risk Work

The National Standard for Licensing Persons Performing High Risk Work applies to persons performing dogging and rigging work. Completion of the following units is required for certification at either basic, intermediate or advanced levels.

CPCCLDG3001A Licence to perform dogging

CPCCLRG3001A Licence to perform rigging basic level

CPCCLRG3002A Licence to perform rigging intermediate level

CPCCLRG4001A Licence to perform rigging advanced level

## Version Modification History

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

| Version | TGA Release Date | Modification History   |
|---------|------------------|--|
| 3       | 7 February 2014  | <p><b>NSSC endorsement:</b><br/>Qualifications:<br/>One new qualification:</p> <ul style="list-style-type: none"> <li>• ICT40713 Certificate IV in Telecommunications Network Design</li> </ul> <p>Twelve revised qualifications:</p> <ul style="list-style-type: none"> <li>• ICT20110 Certificate II in Telecommunications Technology revised, new code ICT20113</li> <li>• ICT20210 Certificate II in Telecommunications revised, new code ICT20213</li> <li>• ICT20310 Certificate II in Telecommunications Cabling revised, new code ICT20313</li> <li>• ICT20410 Certificate II in Telecommunications Digital Reception Technology revised, new code ICT20413</li> <li>• ICT30110 Certificate III in Broadband and Wireless Networks Technology revised, new code ICT30113</li> <li>• ICT30210 Certificate III in Telecommunications revised, new code ICT30213</li> <li>• ICT30310 Certificate III in Telecommunications Cabling revised, new code ICT30313</li> <li>• ICT30410 Certificate III in Telecommunications Digital Reception Technology revised, new code ICT30413</li> <li>• ICT30610 Certificate III in Broadband and Wireless Networks revised, new code ICT30613</li> <li>• ICT40310 Certificate IV in Telecommunications Radio Communications revised, new code ICT40313</li> <li>• ICT40610 Certificate IV in Telecommunications Networks Technology revised, new code ICT40613</li> <li>• ICT50510 Diploma of Telecommunications Planning and Design revised, new code ICT50513</li> </ul> <p>Units of competency<br/>Nine new units:</p> <ul style="list-style-type: none"> <li>• ICTDRE3248A Design communications wiring systems for customer premises</li> <li>• ICTDRE3249A Develop integrated digital reception systems</li> <li>• ICTNPL4247A Apply compliance requirements to telecommunications work</li> <li>• ICTTEN4241A Design network projects</li> <li>• ICTTEN4242A Conduct site surveys to identify carrier installation requirements</li> <li>• ICTTEN4243A Prepare design drawings and specifications for telecommunications installations</li> <li>• ICTTEN4244A Estimate and quote for carrier telecommunications equipment installations</li> <li>• ICTTEN4245A Design infrastructure for telecommunications network installations</li> <li>• ICTTEN4246A Design dense wavelength division multiplexing installations</li> <li>• Three revised units:</li> <li>• ICTCBL2162A Install a cable lead-in revised, new code ICTCBL2163A</li> <li>• ICTTEN2007A Use electrical skills in telecommunications work revised, new code ICTTEN2008A</li> <li>• ICTTEN2105A Install and test an internet protocol device in convergence networks revised, new code and title ICTTEN2219A Install and test internet protocol devices in convergence networks</li> </ul> <p><b>ISC Upgrade:</b></p> |

| Version | TGA Release Date | Modification History  |
|---------|------------------|---|
|         |                  | <p>Minor revisions to 17 qualifications while maintaining equivalence:</p> <ul style="list-style-type: none"> <li>• ICT20513 Certificate II in Telecommunications Fixed Wireless and Rigging Installation</li> <li>• ICT20613 Certificate II in National Broadband Network Construction</li> <li>• ICT30513 Certificate III in Telecommunications Rigging Installation</li> <li>• ICT30713 Certificate III in National Broadband Network Construction</li> <li>• ICT30813 Certificate III in Telecommunications Fixed Wireless Installation</li> <li>• ICT40110 Certificate IV in Optical Networks</li> <li>• ICT40210 Certificate IV in Telecommunications Network Engineering</li> <li>• ICT40410 Certificate IV in Radio Frequency Networks</li> <li>• ICT40510 Certificate IV in Telecommunications Network Planning</li> <li>• ICT50110 Diploma of Optical Networks</li> <li>• ICT50210 Diploma of Telecommunications Network Engineering</li> <li>• ICT50310 Diploma of Telecommunications Management</li> <li>• ICT50410 Diploma of Radio Frequency Networks</li> <li>• ICT60110 Advanced Diploma of Optical Networks</li> <li>• ICT60210 Advanced Diploma of Telecommunications Network Engineering</li> <li>• ICT70110 Vocational Graduate Certificate in Telecommunications Network Engineering</li> <li>• ICT80110 Vocational Graduate Diploma of Telecommunications Network Engineering</li> </ul> <p>Minor revisions to 52 units while maintaining equivalence:</p> <ul style="list-style-type: none"> <li>• ICTBWN3082B Perform tests on optical communication system and components</li> <li>• ICTBWN3088B Install optical fibre splitters in fibre distribution hubs</li> <li>• ICTBWN3090B Install lead-in module and cable for fibre to the premises</li> <li>• ICTBWN3100B Work safely with live fibre to test and commission a fibre to the x installation</li> <li>• ICTBWN3205B Use optical and radio frequency measuring instruments</li> <li>• ICTCBL2005B Install customer cable support systems</li> <li>• ICTCBL2006B Place and secure customer cable</li> <li>• ICTCBL2008B Terminate metallic conductor customer cable</li> <li>• ICTCBL2012B Install functional and protective telecommunications earthing system</li> <li>• ICTCBL2017B Alter services to existing cable system</li> <li>• ICTCBL2065B Splice and terminate optical fibre cable for carriers and service providers</li> <li>• ICTCBL2066B Joint and terminate coaxial cable</li> <li>• ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule</li> <li>• ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule</li> <li>• ICTCBL2138B Install, maintain and modify customer premises communications cabling: ACMA Lift rule</li> <li>• ICTCBL2139B Apply safe technical work practices for cabling registration when configuring an ADSL circuits</li> <li>• ICTCBL3009B Install, terminate and certify structured cabling installation</li> <li>• ICTCBL3010B Install and terminate optical fibre cable on customer premises</li> <li>• ICTCBL3011B Install and terminate coaxial cable</li> <li>• ICTCBL3240B Install ribbon fibre cable in the FTTX distribution network</li> <li>• ICTCBL4002B Prepare design drawings and specification for a cable installation</li> <li>• ICTCBL4004B Schedule and supply cabling installation</li> <li>• ICTCBL4023B Supervise cabling project</li> <li>• ICTCBL4057B Test cable bearers</li> <li>• ICTCMP2022B Organise and monitor cabling to ensure compliance with</li> </ul> |



| Version | TGA Release Date | Modification History   |
|---------|------------------|--|
|         |                  | <p>regulatory and industry standards</p> <ul style="list-style-type: none"> <li>• ICTCMP2239B Perform restricted customer premises broadband cabling work: ACMA Restricted Rule</li> <li>• ICTDRE3156B Install digital reception equipment</li> <li>• ICTDRE3157B Locate and rectify digital reception equipment faults</li> <li>• ICTITU7106B Manage automated IT system applications using unix</li> <li>• ICTOHS2153B Work safely near power infrastructure</li> <li>• ICTOPN4115B Install and test a dense wavelength division multiplexing system</li> <li>• ICTPMG4048B Schedule installation of customer premises equipment</li> <li>• ICTPMG7145B Undertake a telecommunications project</li> <li>• ICTPMG8143B Manage a telecommunications project</li> <li>• ICTPMG8149B Evaluate and use telecommunications management networks</li> <li>• ICTRFN2163B Install a satellite antenna</li> <li>• ICTRFN2164B Install a terrestrial antenna</li> <li>• ICTRFN2068B Monitor the capacity of an recommend changes to the cellular mobile network</li> <li>• ICTRFN7182B Produce a radio link budget</li> <li>• ICTRFN8180B Analyse a cellular mobile network system</li> <li>• ICTTEN2140B Use hand and power tools</li> <li>• ICTTEN3054B Provide infrastructure for telecommunications network equipment</li> <li>• ICTTEN3077B Commission an electronic unit</li> <li>• ICTTEN3250B Provide infrastructure for telecommunications customer equipment</li> <li>• ICTTEN4001B Identify requirements for customer telecommunications equipment</li> <li>• ICTTEN4003B Estimate and quote for customer telecommunications equipment installation</li> <li>• ICTTEN4229B Design, install and configure a customer smart technology network</li> <li>• ICTTEN7193B Plan a transmission network</li> <li>• ICTTEN7227B Analyse business specifications to produce technical solutions</li> <li>• ICTTEN8195B Evaluate and apply network security</li> <li>• ICTWHS2170B Follow work health and safety and environmental policies and procedures</li> </ul> <p>Revised the following skill sets to reflect the changes to units detailed above:</p> <ul style="list-style-type: none"> <li>• Advanced Cabler Registration Skill Set</li> <li>• Advanced Telecommunications Rigging Installation Skill Set</li> <li>• Basic Open Cabler Registration Skill Set</li> <li>• Basic Restricted Cabler Registration Skill Set</li> <li>• Civil Works – Installation of Pit and Pipe and FDH Skill Set</li> <li>• Commercial Digital Television Antenna Systems Installation Skill Set</li> <li>• Convergent Technology Installations for Home and SME Skill Set</li> <li>• Designer Skill Set</li> <li>• Domestic Digital Television Antenna Installation Skill Set</li> <li>• Installing NBN Wireless and Infrastructure Skill Set</li> <li>• IP Convergence Installations for Home and SME Skill Set</li> <li>• National Broadband Network Advanced Linesworker/Installer Skill Set</li> <li>• National Broadband Network Splicer Skill Set</li> <li>• Radio Technician Skill Set</li> <li>• Wireless LAN and IP Network Installation Skill Set</li> </ul> <p>Updated units to current versions.</p> |
| 2       | 19 July 2013     | <p><b>NSSC endorsement:</b></p> <p>Qualifications</p> <p>New qualifications</p> <ul style="list-style-type: none"> <li>• ICT20613 Certificate II in National Broadband Network Construction</li> </ul>   |

| TGA Release |              | Modification History   |
|-------------|--------------|--|
| Version     | Date         |  |
|             |              | <ul style="list-style-type: none"> <li>• ICT30713 Certificate III in National Broadband Network Construction</li> <li>• ICT30813 Certificate III in Telecommunications Fixed Wireless Installation</li> </ul> <p>Revised qualifications</p> <ul style="list-style-type: none"> <li>• ICT20510 Certificate II in Telecommunications Rigging Installation revised: new code and title ICT20513 Certificate II in Telecommunications Fixed Wireless and Rigging Installation</li> <li>• ICT30510 Certificate III in Telecommunications Rigging Installation: new code ICT30513</li> </ul> <p>Units of competency</p> <p>New units</p> <ul style="list-style-type: none"> <li>• ICTCBL3240A Install ribbon fibre cable in the FTTX distribution network</li> <li>• ICTCMP2239A Perform restricted customer premises broadband cabling work: ACMA Restricted Rule</li> <li>• ICTTEN3250A Provide infrastructure for telecommunications customer equipment</li> <li>• ICTWHS2081A Work safely in a radio frequency electromagnetic radiation environment</li> <li>• ICTWHS2170A Follow work health and safety and environmental policies and procedures</li> </ul> <p><b>ISC Upgrade:</b></p> <ul style="list-style-type: none"> <li>• Make a range of minor editorial changes</li> <li>• Update imported units to current version</li> <li>• Addition of new skill sets: <ul style="list-style-type: none"> <li>• Advanced Cabler Registration Skill Set</li> <li>• Basic Open Cabler Registration Skill Set</li> <li>• Basic Restricted Cabler Registration Skill Set</li> <li>• Civil Works – Installation of Pit and Pipe and FDH Skill Set</li> <li>• Designer Skill Set</li> <li>• ICT Access Senior Designer Skill Set</li> <li>• National Broadband Network Advanced Linesworker/Installer Skill Set</li> <li>• National Broadband Network Splicer Skill Set</li> <li>• Plan FTTP Access Network Skill Set</li> </ul> </li> <li>• Update existing skill sets to reflect addition of new ICTWHS2170 unit to Training Package: <ul style="list-style-type: none"> <li>○ Advanced Telecommunications Rigging Installation Skill Set</li> <li>○ Basic ICT Sustainability Skill Set</li> <li>○ Basic Telecommunications Rigging Installation Skill Set</li> <li>○ Commercial Digital Television Antenna Systems Installation Skill Set</li> <li>○ Domestic Digital Television Antenna Installation Skill Set</li> <li>○ ICT Sustainability Planning Skill Set</li> <li>○ Installing NBN Wireless and Infrastructure Skill Set</li> <li>○ Technical Help Desk Support Skill Set</li> <li>○ Radio Technician Skill Set</li> <li>○ Wireless LAN and IP Network Installation Skill Set</li> </ul> </li> <li>• Delete skill sets that are no longer relevant: <ul style="list-style-type: none"> <li>○ Access Network Skill Set</li> <li>○ Broadband Skill Set</li> <li>○ Cabler Registration Skill Set</li> <li>○ Digital Reception Technology Skill Set</li> <li>○ Fibre to the Premises (FTTP) Test and Commission Skill Set (Advanced level installers)</li> <li>○ Fibre to the Premises (FYY) Installation Skill Set (Base level installers)</li> </ul> </li> </ul> <p>Update of pathway qualification information to reflect new and updated qualifications.</p> |
| 1           | 15 June 2010 | Initial release  |

## Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in **Version 3** of the ICT10 Integrated Telecommunications Training Package.

*Note: the new qualifications in version 3 are highlighted in red text*

| National ID | Title   | Nominal Hours |
|-------------|---|---------------|
| ICT20113    | Certificate II in Telecommunications Technology                               | 475           |
| ICT20213    | Certificate II in Telecommunications  | 505           |
| ICT20313    | Certificate II in Telecommunications Cabling                                  | 585           |
| ICT20413    | Certificate II in Telecommunications Digital Reception Technology             | 465           |
| ICT20513    | Certificate II in Telecommunications Fixed Wireless and Rigging Installation  | 550           |
| ICT20613    | Certificate II in National Broadband Network Construction                     | 470           |
| ICT30113    | Certificate III in Broadband and Wireless Networks Technology                 | 685           |
| ICT30213    | Certificate III in Telecommunications   | 565           |
| ICT30313    | Certificate III in Telecommunications Cabling                                 | 560           |
| ICT30413    | Certificate III in Telecommunications Digital Reception Technology            | 425           |
| ICT30513    | Certificate III in Telecommunications Fixed Wireless and Rigging Installation | 480           |
| ICT30613    | Certificate III in Broadband and Wireless Networks                            | 530           |
| ICT30713    | Certificate III in National Broadband Network Construction                    | 520           |
| ICT30813    | Certificate III in Telecommunications Fixed Wireless Installation             | 525           |
| ICT40110    | Certificate IV in Optical Networks  | 645           |
| ICT40210    | Certificate IV in Telecommunications Network Engineering                      | 660           |
| ICT40313    | Certificate IV in Telecommunications Radio Communications                     | 840           |
| ICT40410    | Certificate IV in Radio Frequency Networks                                    | 625           |
| ICT40510    | Certificate IV in Telecommunications Network Planning                         | 500           |
| ICT40613    | Certificate IV in Telecommunications Networks Technology                      | 805           |
| ICT40713    | Certificate IV in Telecommunications  | 510           |
| ICT50110    | Diploma of Optical Networks   | 645           |
| ICT50210    | Diploma of Telecommunications Network Engineering                             | 790           |
| ICT50310    | Diploma of Telecommunications Management                                      | 725           |
| ICT50410    | Diploma of Radio Frequency Networks   | 765           |
| ICT50510    | Diploma of Telecommunications Planning and Design                             | 640           |
| ICT60110    | Advanced Diploma of Optical Networks  | 720           |
| ICT60210    | Advanced Diploma of Telecommunications Network Engineering                    | 590           |
| ICT70110    | Graduate Certificate In Telecommunications Network Engineering                | 280           |
| ICT80110    | Graduate Diploma of Telecommunications Network Engineering                    | 335           |

## Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in version 3 of the ICT10 Integrated Telecommunications Training Package.

Note: the new units in version 3 are highlighted in red text

| National ID | Unit Title  | Nominal Hours |
|-------------|---|---------------|
| ICTBWN3082B | Perform tests on optical communication system and components                                | 35            |
| ICTBWN3088B | Install optical fibre splitters in fibre distribution hubs                                  | 35            |
| ICTBWN3090B | Install lead-in module and cable for fibre to the premises                                  | 45            |
| ICTBWN3100B | Work safely with live fibre to test and commission a fibre to the x installation            | 45            |
| ICTBWN3205B | Use optical and radio frequency measuring instruments                                       | 35            |
| ICTCBL2005B | Install customer cable support systems  | 60            |
| ICTCBL2006B | Place and secure customer cable   | 60            |
| ICTCBL2008B | Terminate metallic conductor customer cable   | 60            |
| ICTCBL2012B | Install functional and protective telecommunications earthing system                        | 80            |
| ICTCBL2016A | Joint metallic conductor cable on customer premises   | 80            |
| ICTCBL2017B | Alter services to existing cable system   | 80            |
| ICTCBL2064A | Haul underground cable  | 40            |
| ICTCBL2065B | Splice and terminate optical fibre cable for carriers and service providers                 | 60            |
| ICTCBL2066B | Joint and terminate coaxial cable   | 60            |
| ICTCBL2068A | Install a telecommunications service to a building  | 50            |
| ICTCBL2131A | Install an above ground equipment enclosure   | 60            |
| ICTCBL2132A | Erect aerial cable supports   | 60            |
| ICTCBL2133A | Construct underground telecommunications infrastructure                                     | 60            |
| ICTCBL2134A | Fix aerial cable  | 60            |
| ICTCBL2135A | Joint metallic conductor cable in access network  | 60            |
| ICTCBL2136B | Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule | 60            |
| ICTCBL213B  | Install, maintain and modify customer premises communications cabling: ACMA Open Rule       | 60            |
| ICTCBL2138B | Install, maintain and modify customer premises communications cabling: ACMA Lift Rule       | 60            |
| ICTCBL2139B | Apply safe technical work practices for cabling registration                                | 35            |
| ICTCBL2163A | Install a cable lead-in   | 10            |
| ICTCBL3009B | Install, terminate and certify structured cabling installation                              | 30            |
| ICTCBL3010B | Install and terminate optical fibre cable on customer premises                              | 30            |
| ICTCBL3011B | Install and terminate coaxial cable   | 20            |
| ICTCBL3013A | Perform cable and system test on customer premises  | 60            |
| ICTCBL3014A | Hand over systems and equipment   | 60            |
| ICTCBL3015A | Locate and identify cable system faults   | 60            |
| ICTCBL3018A | Install underground enclosures and conduit  | 60            |
| ICTCBL3019A | Install underground cable   | 60            |
| ICTCBL3020A | Construct aerial cable supports   | 60            |
| ICTCBL3021A | Install aerial cable  | 60            |
| ICTCBL3049A | Install systems and equipment on customer premises  | 60            |
| ICTCBL3052A | Cut over new systems and equipment on customer premises                                     | 80            |
| ICTCBL3067A | Modify and cut over cable   | 45            |
| ICTCBL3069A | Install network cable equipment   | 60            |
| ICTCBL3103A | Maintain cable network  | 40            |
| ICTCBL3240B | Install ribbon fibre cable in the FTTX distribution network                                 | 55            |
| ICTCBL4002B | Prepare design drawings and specification for a cable installation                          | 120           |
| ICTCBL4004B | Schedule and supply cabling installation  | 60            |
| ICTCBL4023B | Supervise cabling project   | 100           |
| ICTCBL4057B | Test cable bearers  | 80            |

| National ID | Unit Title   | Nominal Hours |
|-------------|--|---------------|
| ICTCBL4099A | Remotely locate and identify cable network faults  | 60            |
| ICTCMP2022B | Organise and monitor cabling to ensure compliance with regulatory and industry standards   | 40            |
| ICTCMP2239B | Perform restricted customer premises broadband cabling work: ACMA Restricted Rule          | 20            |
| ICTCMP5176A | Undertake radio communications site audit  | 40            |
| ICTDRE3156B | Install digital reception equipment  | 50            |
| ICTDRE3157B | Locate and rectify digital reception equipment faults                                      | 40            |
| ICTDRE3165A | Install a complex digital reception system   | 50            |
| ICTDRE3248A | Design communications wiring systems for customer premises                                 | 35            |
| ICTDRE3249A | Develop integrated digital reception systems   | 35            |
| ICTDRE4166A | Integrate customer digital reception equipment   | 40            |
| ICTDRE4167A | Integrate data delivery modes  | 25            |
| ICTEDU3053A | Train customers in new technology  | 40            |
| ICTEDU5025A | Develop and deliver training associated with new and modified products                     | 120           |
| ICTITU5144A | Test telecommunications network using virtual instruments                                  | 60            |
| ICTITU7106B | Manage automated ICT system applications using unix  | 45            |
| ICTNPL4107A | Apply business acumen to network planning  | 45            |
| ICTNPL4108A | Plan the deployment of access network architectures  | 50            |
| ICTNPL4109A | Evaluate the capability of access networks   | 45            |
| ICTNPL4110A | Evaluate the planning requirements for provisioning a telecommunications building facility | 60            |
| ICTNPL4111A | Develop provisioning of telecommunications building works project                          | 45            |
| ICTNPL4112A | Evaluate core network architectures  | 60            |
| ICTNPL4113A | Plan the deployment of core network  | 45            |
| ICTNPL4114A | Produce planning specifications for end to end service delivery                            | 45            |
| ICTNPL4150A | Apply knowledge of regulation and legislation for the telecommunications industry          | 60            |
| ICTNPL4151A | Plan the telecommunications access network for an estate                                   | 80            |
| ICTNPL4247A | Apply compliance requirements to telecommunications work                                   | 60            |
| ICTNPL5071A | Develop planning strategies for core network design  | 45            |
| ICTNPL5096A | Develop planning strategies for access network design                                      | 55            |
| ICTNPL5101A | Apply service measures and demand forecasting to products and services planning            | 45            |
| ICTNPL5154A | Develop planning strategies for building environment design                                | 45            |
| ICTNPL6029A | Plan the development and growth of the telecommunications network                          | 120           |
| ICTNPL6030A | Forecast service demand  | 120           |
| ICTNPL6046A | Undertake network performance analysis   | 120           |
| ICTOHS2080A | Provide telecommunications services safely on roofs  | 45            |
| ICTOHS2153B | Work safely near power infrastructure  | 30            |
| ICTOHS2170A | Follow Occupational Health and Safety and environmental policy and procedures              | 20            |
| ICTOPN4115B | Install and test a dense wavelength division multiplexing system                           | 55            |
| ICTOPN4116A | Use advanced optical test equipment  | 45            |
| ICTOPN4117A | Prepare activity plans and specifications for a fibre to the x installation                | 55            |
| ICTOPN5118A | Plan and configure dense wavelength division multiplexing systems                          | 55            |
| ICTOPN5119A | Perform acceptance and commissioning tests on optical network                              | 45            |
| ICTOPN5120A | Plan for an optical system upgrade and cut over  | 55            |
| ICTOPN5121A | Test and commission a dense wavelength division multiplexing transmission system           | 50            |
| ICTOPN5122A | Test the performance of specialised optical devices  | 45            |
| ICTOPN5123A | Analyse and integrate specialised optical devices in the network                           | 60            |
| ICTOPN6124A | Manage optical ethernet transmission   | 55            |
| ICTOPN6125A | Manage dense wavelength division multiplexing transmission system                          | 55            |
| ICTOPN6128A | Design a dense wavelength division multiplexing system                                     | 45            |
| ICTOPN6129A | Analyse optical transmission systems   | 45            |
| ICTPMG2130A | Prepare site for support installation  | 60            |

| National ID | Unit Title   | Nominal Hours |
|-------------|--|---------------|
| ICTPMG2173A | Plan, organise and undertake work activities   | 30            |
| ICTPMG4048B | Schedule installation of customer premises equipment   | 40            |
| ICTPMG4152A | Manage the delivery of network infrastructure  | 60            |
| ICTPMG5027A | Develop customer premises equipment installation project plans                                   | 120           |
| ICTPMG5031A | Prepare a project brief  | 120           |
| ICTPMG5039A | Prepare project specifications   | 120           |
| ICTPMG6033A | Develop a project management plan  | 70            |
| ICTPMG6034A | Prepare a detailed design brief  | 40            |
| ICTPMG7145B | Undertake a telecommunications project   | 45            |
| ICTPMG8142A | Manage a telecommunications workplace  | 45            |
| ICTPMG8143B | Manage a telecommunications project  | 45            |
| ICTPMG8149B | Evaluate and use telecommunications management networks  | 70            |
| ICTPRO5026A | Develop training, marketing and sales resources for telecommunications products                  | 60            |
| ICTRFN2163B | Install a satellite antenna  | 40            |
| ICTRFN2164B | Install a terrestrial antenna  | 40            |
| ICTRFN3055A | Install a radio communications antenna and feedline  | 60            |
| ICTRFN3070A | Install mobile telecommunications in motor vehicles  | 80            |
| ICTRFN3146A | Install WiMAX customer premises equipment broadband wireless access equipment                    | 35            |
| ICTRFN3155A | Construct and test a radio communications device   | 40            |
| ICTRFN3175A | Operate and maintain radio communications technical instruments and field equipment              | 40            |
| ICTRFN4095A | Conduct radio frequency measurements   | 40            |
| ICTRFN4158A | Select an antenna system for radio communications  | 25            |
| ICTRFN4159A | Test and repair cellular network equipment   | 55            |
| ICTRFN4174A | Undertake radio communications signals monitoring  | 40            |
| ICTRFN4177A | Install radio communications base station equipment  | 45            |
| ICTRFN4178A | Maintain hybrid fibre coaxial broadband cable network  | 45            |
| ICTRFN5097A | Test cellular handset enhancements and international roaming agreements                          | 50            |
| ICTRFN5148A | Test and measure cellular phone and network equipment performance                                | 50            |
| ICTRFN5179A | Evaluate and analyse radio frequency signal coverage plots                                       | 40            |
| ICTRFN6098B | Monitor the capacity of and recommend changes to the cellular mobile network                     | 60            |
| ICTRFN6171A | Produce and evaluate architecture designs for WiMAX networks                                     | 60            |
| ICTRFN7182B | Produce a radio link budget  | 45            |
| ICTRFN8180B | Analyse a cellular mobile network system   | 60            |
| ICTRFN8181B | Analyse a satellite communications system  | 55            |
| ICTSMB4160A | Set up and operate a contractor business   | 40            |
| ICTSMB4161A | Operate a contractor business with employees   | 60            |
| ICTSUS4183A | Install and test renewable energy system for ICT networks  | 55            |
| ICTSUS4184A | Install and test power saving hardware   | 55            |
| ICTSUS4185A | Install and test power management software   | 45            |
| ICTSUS4186A | Install thin client applications for power over ethernet   | 55            |
| ICTSUS5187A | Implement server virtualisation for a sustainable ICT system                                     | 70            |
| ICTSUS6233A | Integrate sustainability in ICT planning and design projects                                     | 50            |
| ICTSUS6234A | Establish a business case for sustainability and competitive advantage in ICT projects           | 50            |
| ICTSUS7235A | Use ICT to improve sustainability outcomes   | 45            |
| ICTSUS7236A | Manage improvements in ICT sustainability  | 50            |
| ICTSUS8237A | Lead applied research in ICT sustainability  | 55            |
| ICTSUS8238A | Conduct and manage a life cycle assessment for sustainability                                    | 55            |
| ICTTCR2188A | Use rigging practices and systems on telecommunications network structures                       | 40            |
| ICTTCR2189A | Use operational safety in a telecommunications rigging environment                               | 40            |
| ICTTCR2190A | Use safe rigging practices to climb and perform rescues on telecommunications network structures | 40            |



| National ID | Unit Title  | Nominal Hours |
|-------------|---|---------------|
| ICTTCR3062A | Build a telecommunications radio structure  | 80            |
| ICTTCR3191A | Install radio plant and equipment on telecommunications structures  | 55            |
| ICTTCR3192A | Protect against electromagnetic radiation and system hazards when working on telecommunications radio sites | 35            |
| ICTTEN2008A | Use electrical skills in telecommunications work  | 35            |
| ICTTEN2219A | Install and test an internet protocol device in convergence networks  | 45            |
| ICTTEN2140B | Use hand and power tools  | 40            |
| ICTTEN2207A | Install and configure a home or small office network  | 55            |
| ICTTEN2208A | Install and configure a small to medium business network  | 55            |
| ICTTEN2209A | Build and maintain a secure network   | 70            |
| ICTTEN2218A | Operate new media software packages   | 35            |
| ICTTEN3054B | Provide infrastructure for telecommunications network equipment   | 80            |
| ICTTEN3056A | Install telecommunications network equipment  | 80            |
| ICTTEN3063A | Locate, identify and rectify recurrent network faults   | 45            |
| ICTTEN3074A | Recover customer premises equipment   | 60            |
| ICTTEN3075A | Refurbish customer premises equipment   | 60            |
| ICTTEN3077B | Commission an electronic unit   | 60            |
| ICTTEN3089A | Repair and replace telecommunications network hardware  | 60            |
| ICTTEN3104A | Maintain an electronic system   | 60            |
| ICTTEN3250B | Provide infrastructure for telecommunications customer equipment  | 55            |
| ICTTEN4001B | Identify requirements for customer telecommunications equipment   | 60            |
| ICTTEN4003B | Estimate and quote for customer telecommunications equipment installation                                   | 60            |
| ICTTEN4040A | Assign a transmission path  | 40            |
| ICTTEN4050A | Install and configure a wireless mesh network   | 55            |
| ICTTEN4051A | Install configuration programs on PC based customer equipment   | 60            |
| ICTTEN4072A | Effect changes to existing customer premises equipment systems and equipment                                | 60            |
| ICTTEN4073A | Cut over customer premises equipment major upgrades   | 35            |
| ICTTEN4076A | Complete equipment and software upgrades  | 80            |
| ICTTEN4078A | Commission an electronic system   | 60            |
| ICTTEN4081A | Locate, diagnose and rectify faults   | 50            |
| ICTTEN4085A | Monitor, analyse and action telecommunications network alarms   | 60            |
| ICTTEN4086A | Undertake routine maintenance of the telecommunications network   | 60            |
| ICTTEN4087A | Undertake remote diagnosis and repair of network faults   | 50            |
| ICTTEN4102A | Repair telecommunication system faults  | 40            |
| ICTTEN4126A | Install and configure internet protocol TV in a home network  | 45            |
| ICTTEN4198A | Install, configure and test an internet protocol network  | 45            |
| ICTTEN4199A | Install, configure and test a router  | 55            |
| ICTTEN4202A | Install and test a radio frequency identification system  | 45            |
| ICTTEN4210A | Implement and troubleshoot enterprise routers and switches  | 85            |
| ICTTEN4211A | Design, install and configure an internetwork   | 85            |
| ICTTEN4212A | Apply advanced routing protocols to network design  | 70            |
| ICTTEN4213A | Configure and troubleshoot advanced network switching   | 0             |
| ICTTEN4214A | Install and maintain a wide area network  | 70            |
| ICTTEN4215A | Install and configure internet protocol TV in a service provider network                                    | 55            |
| ICTTEN4229B | Design, install and configure a customer smart grid network   | 45            |
| ICTTEN4241A | Design network projects   | 70            |
| ICTTEN4242A | Conduct site surveys to identify carrier installation requirements  | 35            |
| ICTTEN4243A | Prepare design drawings and specifications for telecommunications installations                             | 45            |
| ICTTEN4244A | Estimate and quote for carrier telecommunications equipment installations                                   | 25            |
| ICTTEN4245A | Design infrastructure for telecommunications network installations  | 45            |
| ICTTEN4246A | Design dense wavelength division multiplexing installations   | 55            |
| ICTTEN5024A | Provide consultancy and technical support in the customer premises equipment sector                         | 120           |

| National ID | Unit Title   | Nominal Hours |
|-------------|--|---------------|
| ICTTEN5037A | Design a telecommunications project  | 120           |
| ICTTEN5038A | Design an electronic system for a telecommunications network   | 120           |
| ICTTEN5058A | Acceptance test new systems and equipment  | 120           |
| ICTTEN5059A | Commission telecommunications network equipment  | 120           |
| ICTTEN5060A | Integrate new systems and equipment into the telecommunications network                              | 120           |
| ICTTEN5061A | Cut over new and replacement network equipment   | 120           |
| ICTTEN5083A | Locate, diagnose and rectify complex faults  | 55            |
| ICTTEN5084A | Provide expert advice and support on complex faults  | 120           |
| ICTTEN5092A | Undertake planned outage management  | 40            |
| ICTTEN5147A | Administer a data communications network   | 80            |
| ICTTEN5168A | Design and implement an enterprise voice over internet protocol and a unified communications network | 60            |
| ICTTEN5200A | Install, configure and test a local area network switch  | 55            |
| ICTTEN5201A | Install, configure and test a server   | 55            |
| ICTTEN5203A | Dimension and design a radio frequency identification system   | 55            |
| ICTTEN5204A | Produce technical solutions from business specifications   | 45            |
| ICTTEN5217A | Plan a wireless mesh network   | 55            |
| ICTTEN6036A | Undertake qualification testing of new or enhanced equipment and systems                             | 120           |
| ICTTEN6042A | Undertake system administration  | 120           |
| ICTTEN6043A | Undertake network traffic management   | 120           |
| ICTTEN6044A | Coordinate fault rectification and restoration of service following network outages                  | 120           |
| ICTTEN6045A | Implement planned network changes with minimal impact to the customer                                | 120           |
| ICTTEN6047A | Manage a common channel signalling network   | 120           |
| ICTTEN6091A | Analyse and organise repair of highly complex telecommunications network faults                      | 120           |
| ICTTEN6094A | Verify new software and hardware releases  | 120           |
| ICTTEN6169A | Produce and evaluate architecture designs for convergent cellular mobile networks                    | 60            |
| ICTTEN6172A | Design and configure an IP-MPLS network with virtual private network tunnelling                      | 70            |
| ICTTEN6206A | Produce an ICT network architecture design   | 55            |
| ICTTEN6216A | Design and manage internet protocol TV in a service provider network                                 | 55            |
| ICTTEN7193B | Plan a transmission network  | 55            |
| ICTTEN7219A | Manage alignment of systems with product and technology strategy                                     | 35            |
| ICTTEN7220A | Translate domain and solution architectures into platform requirements and designs                   | 55            |
| ICTTEN7221A | Manage end to end architectural solutions across multiple domains                                    | 55            |
| ICTTEN7222A | Manage solution architecture and impacts in line with organisational processes                       | 55            |
| ICTTEN7223A | Manage application layer solutions   | 55            |
| ICTTEN7224A | Manage voice, data and internet protocol network solutions   | 55            |
| ICTTEN7225A | Manage network testing strategies  | 55            |
| ICTTEN7226A | Manage development and application of testing artefacts  | 55            |
| ICTTEN7227B | Analyse business specifications to produce technical solutions                                       | 55            |
| ICTTEN7228A | Manage project requirements and process implementations  | 55            |
| ICTTEN7230A | Scope project requirements and process solutions   | 55            |
| ICTTEN8194A | Investigate the application of cloud networks in telecommunications switching                        | 55            |
| ICTTEN8195B | Evaluate and apply network security  | 55            |
| ICTTEN8196A | Evaluate and apply digital signal processing to communications system                                | 55            |
| ICTTEN8197A | Produce engineering solutions using numerical computations and simulation                            | 55            |
| ICTWHS2081A | Work safely in a radio frequency electromagnetic radiation environment                               | 35            |
| ICTWHS2170B | Follow work health and safety and environmental policies and procedures                              | 35            |
| ICTWOR2141A | Work effectively in a telecommunications technology team   | 40            |



| <b>National ID</b> | <b>Unit Title</b>  | <b>Nominal Hours</b> |
|--------------------|--|----------------------|
| ICTWOR3028A        | Organise resources   | 60                   |
| ICTWOR3035A        | Organise material supply                                       | 60                   |
| ICTWOR3041A        | Schedule resources   | 40                   |
| ICTWOR3093A        | Manage spare parts   | 60                   |
| ICTWOR3127A        | Supervise worksite activities                                  | 40                   |
| ICTWOR3231A        | Resolve technical enquiries using multiple information systems | 35                   |
| ICTWOR3232A        | Collect and analyse technical information                      | 25                   |
| ICTWOR4032A        | Undertake a civil site survey                                  | 40                   |
| ICTWOR4079A        | Schedule equipment maintenance                                 | 60                   |

## Mapping Qualifications

The following table provides an overview of the qualifications from version 3 of the ICT10 Integrated Telecommunications Training Package which replaces qualifications from the existing version.

| ICT10 Version 2 Current Qualification |  |       |      | ICT10 Version 3 Replacement Qualification |  |       |
|---------------------------------------|--|-------|------|---|--|-------|
| National ID                           | Title  | Hours | E/NE | National ID                               | Title  | Hours |
| ICT20110                              | Certificate II in Telecommunications Technology                    | 460   | E    | ICT20113                                  | Certificate II in Telecommunications Technology                    | 475   |
| ICT20210                              | Certificate II in Telecommunications                               | 490   | E    | ICT20213                                  | Certificate II in Telecommunications                               | 505   |
| ICT20310                              | Certificate II in Telecommunications Cabling                       | 570   | E    | ICT20313                                  | Certificate II in Telecommunications Cabling                       | 585   |
| ICT20410                              | Certificate II in Telecommunications Digital Reception Technology  | 450   | E    | ICT20413                                  | Certificate II in Telecommunications Digital Reception Technology  | 465   |
| ICT30110                              | Certificate III in Broadband and Wireless Networks Technology      | 670   | E    | ICT30113                                  | Certificate III in Broadband and Wireless Networks Technology      | 685   |
| ICT30210                              | Certificate III in Telecommunications                              | 525   | E    | ICT30213                                  | Certificate III in Telecommunications                              | 565   |
| ICT30310                              | Certificate III in Telecommunications Cabling                      | 560   | E    | ICT30313                                  | Certificate III in Telecommunications Cabling                      | 560   |
| ICT30410                              | Certificate III in Telecommunications Digital Reception Technology | 425   | NE   | ICT30413                                  | Certificate III in Telecommunications Digital Reception Technology | 425   |
| ICT30610                              | Certificate III in Broadband and Wireless Networks                 | 515   | E    | ICT30613                                  | Certificate III in Broadband and Wireless Networks                 | 530   |
| ICT40310                              | Certificate IV in Telecommunications Radio Communications          | 840   | E    | ICT40313                                  | Certificate IV in Telecommunications Radio Communications          | 840   |
| ICT40610                              | Certificate IV in Telecommunications Networks Technology           | 790   | E    | ICT40613                                  | Certificate IV in Telecommunications Networks Technology           | 805   |
| -                                     | New qualification – no previous equivalent                         | -     | -    | ICT40713                                  | Certificate IV in Telecommunications                               | 510   |
| ICT50510                              | Diploma of Telecommunications Planning and Design                  | 640   | E    | ICT50513                                  | Diploma of Telecommunications Planning and Design                  | 640   |

Please note: The **highlighted** qualifications are *non-equivalent* to the superseded qualification. This may have implications for Apprenticeship and Traineeship transfer.

## Mapping Units of Competency

The following table provides an overview of the units of competency from version 1 of the ICT10 Integrated Telecommunications Training Package which are replaced by the units of competency from version 3.

| ICT10 Version 2 Current Unit |   |       |          | ICT10 Version 3 Replacement Unit |   |       |
|------------------------------|---|-------|----------|----------------------------------|---|-------|
| National ID                  | Title   | Hours | E/<br>NE | National ID                      | Title   | Hours |
| ICTBWN3082A                  | Perform tests on optical communication system and components                                | 35    | E        | ICTBWN3082B                      | Perform tests on optical communication system and components                                | 35    |
| ICTBWN3088A                  | Install optical fibre splitters in fibre distribution hubs                                  | 35    | E        | ICTBWN3088B                      | Install optical fibre splitters in fibre distribution hubs                                  | 35    |
| ICTBWN3090A                  | Install lead-in module and cable for fibre to the premises                                  | 45    | E        | ICTBWN3090B                      | Install lead-in module and cable for fibre to the premises                                  | 45    |
| ICTBWN3100A                  | Work safely with live fibre to test and commission a fibre to the x installation            | 45    | E        | ICTBWN3100B                      | Work safely with live fibre to test and commission a fibre to the x installation            | 45    |
| ICTBWN3205A                  | Use optical and radio frequency measuring instruments                                       | 35    | E        | ICTBWN3205B                      | Use optical and radio frequency measuring instruments                                       | 35    |
| ICTCBL2005A                  | Install customer cable support systems  | 60    | E        | ICTCBL2005B                      | Install customer cable support systems  | 60    |
| ICTCBL2006A                  | Place and secure customer cable   | 60    | E        | ICTCBL2006B                      | Place and secure customer cable   | 60    |
| ICTCBL2008A                  | Terminate metallic conductor customer cable   | 60    | E        | ICTCBL2008B                      | Terminate metallic conductor customer cable   | 60    |
| ICTCBL2012A                  | Install functional and protective telecommunications earthing system                        | 80    | E        | ICTCBL2012B                      | Install functional and protective telecommunications earthing system                        | 80    |
| ICTCBL2017A                  | Alter services to existing cable system   | 80    | E        | ICTCBL2017B                      | Alter services to existing cable system   | 80    |
| ICTCBL2065A                  | Splice and terminate optical fibre cable for carriers and service providers                 | 60    | E        | ICTCBL2065B                      | Splice and terminate optical fibre cable for carriers and service providers                 | 60    |
| ICTCBL2066A                  | Joint and terminate coaxial cable   | 60    | E        | ICTCBL2066B                      | Joint and terminate coaxial cable   | 60    |
| ICTCBL2136A                  | Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule | 60    | E        | ICTCBL2136B                      | Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule | 60    |
| ICTCBL2137A                  | Install, maintain and modify customer premises communications cabling: ACMA Open Rule       | 60    | E        | ICTCBL2137B                      | Install, maintain and modify customer premises communications cabling: ACMA Open Rule       | 60    |
| ICTCBL2138A                  | Install, maintain and modify customer premises communications cabling: ACMA Lift Rule       | 60    | E        | ICTCBL2138B                      | Install, maintain and modify customer premises communications cabling: ACMA Lift Rule       | 60    |
| ICTCBL2139A                  | Apply safe technical work practices for cabling   | 35    | E        | ICTCBL2139B                      | Apply safe technical work practices for   | 35    |

| ICT10 Version 2 Current Unit |  |       |          | ICT10 Version 3 Replacement Unit |  |       |
|------------------------------|--|-------|----------|----------------------------------|--|-------|
| National ID                  | Title  | Hours | E/<br>NE | National ID                      | Title  | Hours |
|                              | registration   |       |          |                                  | cabling registration   |       |
| ICTCBL2162A                  | Install a cable lead-in  | 10    | E        | ICTCBL2163A                      | Install a cable lead-in  | 10    |
| ICTCBL3009A                  | Install, terminate and certify structured cabling installation                           | 30    | E        | ICTCBL3009B                      | Install, terminate and certify structured cabling installation                           | 30    |
| ICTCBL3010A                  | Install and terminate optical fibre cable on customer premises                           | 30    | E        | ICTCBL3010B                      | Install and terminate optical fibre cable on customer premises                           | 30    |
| ICTCBL3011A                  | Install and terminate coaxial cable  | 20    |          | ICTCBL3011B                      | Install and terminate coaxial cable  | 20    |
| ICTCBL3240A                  | Install ribbon fibre cable in the FTTX distribution network                              | 55    | E        | ICTCBL3240B                      | Install ribbon fibre cable in the FTTX distribution network                              | 55    |
| ICTCBL4002A                  | Prepare design drawings and specification for a cable installation                       | 120   | E        | ICTCBL4002B                      | Prepare design drawings and specification for a cable installation                       | 120   |
| ICTCBL4004A                  | Schedule and supply cabling installation   | 60    | E        | ICTCBL4004B                      | Schedule and supply cabling installation   | 60    |
| ICTCBL4023A                  | Supervise cabling project  | 100   | E        | ICTCBL4023B                      | Supervise cabling project  | 100   |
| ICTCBL4057A                  | Test cable bearers   | 80    | E        | ICTCBL4057B                      | Test cable bearers   | 80    |
| ICTCMP2022A                  | Organise and monitor cabling to ensure compliance with regulatory and industry standards | 40    | E        | ICTCMP2022B                      | Organise and monitor cabling to ensure compliance with regulatory and industry standards | 40    |
| ICTCMP2239A                  | Perform restricted customer premises broadband cabling work: ACMA Restricted Rule        | 20    | E        | ICTCMP2239B                      | Perform restricted customer premises broadband cabling work: ACMA Restricted Rule        | 20    |
| ICTDRE3156A                  | Install digital reception equipment  | 50    | E        | ICTDRE3156B                      | Install digital reception equipment  | 50    |
| ICTDRE3157A                  | Locate and rectify digital reception equipment faults                                    | 40    | E        | ICTDRE3157B                      | Locate and rectify digital reception equipment faults                                    | 40    |
|                              | New unit – no previous equivalent  |       | -        | ICTDRE3248A                      | Design communications wiring systems for customer premises                               | 35    |
|                              | New unit – no previous equivalent  |       | -        | ICTDRE3249A                      | Develop integrated digital reception systems   | 35    |
| ICTITU7106A                  | Manage automated ICT system applications using unix                                      | 45    | E        | ICTITU7106B                      | Manage automated ICT system applications using unix                                      | 45    |
|                              | New unit – no previous equivalent  |       | -        | ICTNPL4247A                      | Apply compliance requirements to telecommunications work                                 | 60    |
| ICTOHS2153A                  | Work safely near power infrastructure  | 30    | E        | ICTOHS2153B                      | Work safely near power infrastructure  | 30    |
| ICTOPN4115A                  | Install and test a dense wavelength division multiplexing system                         | 55    | E        | ICTOPN4115B                      | Install and test a dense wavelength division multiplexing system                         | 55    |
| ICTPMG4048A                  | Schedule installation of customer premises equipment                                     | 40    | E        | ICTPMG4048B                      | Schedule installation of customer premises equipment                                     | 40    |
| ICTPMG7145A                  | Undertake a telecommunications project   | 45    | E        | ICTPMG7145B                      | Undertake a telecommunications project   | 45    |

| ICT10 Version 2 Current Unit |  |       |          | ICT10 Version 3 Replacement Unit |   |       |
|------------------------------|--|-------|----------|----------------------------------|---|-------|
| National ID                  | Title  | Hours | E/<br>NE | National ID                      | Title   | Hours |
| ICTPMG8143A                  | Manage a telecommunications project  | 45    | E        | ICTPMG8143B                      | Manage a telecommunications project   | 45    |
| ICTPMG8149A                  | Evaluate and use telecommunications management networks                      | 70    | E        | ICTPMG8149B                      | Evaluate and use telecommunications management networks                         | 70    |
| ICTRFN2163A                  | Install a satellite antenna  | 40    | E        | ICTRFN2163B                      | Install a satellite antenna   | 40    |
| ICTRFN2164A                  | Install a terrestrial antenna  | 40    | E        | ICTRFN2164B                      | Install a terrestrial antenna   | 40    |
| ICTRFN6098A                  | Monitor the capacity of and recommend changes to the cellular mobile network | 60    | E        | ICTRFN6098B                      | Monitor the capacity of and recommend changes to the cellular mobile network    | 60    |
| ICTRFN7182A                  | Produce a radio link budget  | 45    | E        | ICTRFN7182B                      | Produce a radio link budget   | 45    |
| ICTRFN8180A                  | Analyse a cellular mobile network system                                     | 60    | E        | ICTRFN8180B                      | Analyse a cellular mobile network system  | 60    |
| ICTRFN8181A                  | Analyse a satellite communications system                                    | 55    | E        | ICTRFN8181B                      | Analyse a satellite communications system                                       | 55    |
| ICTTEN2007A                  | Use electrical skills in telecommunications work                             | 35    | NE       | ICTTEN2008A                      | Use electrical skills in telecommunications work                                | 35    |
| ICTTEN2105A                  | Install and test an internet protocol device in convergence networks         | 45    | NE       | ICTTEN2219A                      | Install and test an internet protocol device in convergence networks            | 45    |
| ICTTEN2140A                  | Use hand and power tools   | 40    | E        | ICTTEN2140B                      | Use hand and power tools  | 40    |
| ICTTEN3054A                  | Provide infrastructure for telecommunications network equipment              | 80    | E        | ICTTEN3054B                      | Provide infrastructure for telecommunications network equipment                 | 80    |
| ICTTEN3077A                  | Commission an electronic unit  | 60    | E        | ICTTEN3077B                      | Commission an electronic unit   | 60    |
| ICTTEN3250A                  | Provide infrastructure for telecommunications customer equipment             | 55    | E        | ICTTEN3250B                      | Provide infrastructure for telecommunications customer equipment                | 55    |
| ICTTEN4001A                  | Identify requirements for customer telecommunications equipment              | 60    | E        | ICTTEN4001B                      | Identify requirements for customer telecommunications equipment                 | 60    |
| ICTTEN4003A                  | Estimate and quote for customer telecommunications equipment installation    | 60    | E        | ICTTEN4003B                      | Estimate and quote for customer telecommunications equipment installation       | 60    |
| ICTTEN4229A                  | Design, install and configure a customer smart grid network                  | 45    | E        | ICTTEN4229B                      | Design, install and configure a customer smart grid network                     | 45    |
|                              | New unit – no previous equivalent  |       | -        | ICTTEN4241A                      | Design network projects   | 70    |
|                              | New unit – no previous equivalent  |       | -        | ICTTEN4242A                      | Conduct site surveys to identify carrier installation requirements              | 35    |
|                              | New unit – no previous equivalent  |       | -        | ICTTEN4243A                      | Prepare design drawings and specifications for telecommunications installations | 45    |
|                              | New unit – no previous equivalent  |       | -        | ICTTEN4244A                      | Estimate and quote for carrier telecommunications equipment installations       | 25    |
|                              | New unit – no previous equivalent  |       | -        | ICTTEN4245A                      | Design infrastructure for telecommunications network installations              | 45    |
|                              | New unit – no previous equivalent  |       | -        | ICTTEN4246A                      | Design dense wavelength division  | 55    |

| ICT10 Version 2 Current Unit |   |       |          | ICT10 Version 3 Replacement Unit |   |       |
|------------------------------|---|-------|----------|----------------------------------|---|-------|
| National ID                  | Title   | Hours | E/<br>NE | National ID                      | Title   | Hours |
|                              |   |       |          |                                  | multiplexing installations  |       |
| ICTTEN7193A                  | Plan a transmission network   | 55    | E        | ICTTEN7193B                      | Plan a transmission network   | 55    |
| ICTTEN7227A                  | Analyse business specifications to produce technical solutions          | 55    | E        | ICTTEN7227B                      | Analyse business specifications to produce technical solutions          | 55    |
| ICTTEN8195A                  | Evaluate and apply network security                                     | 55    | E        | ICTTEN8195B                      | Evaluate and apply network security                                     | 55    |
| ICTWHS2170A                  | Follow work health and safety and environmental policies and procedures | 35    | E        | ICTWHS2170B                      | Follow work health and safety and environmental policies and procedures | 35    |

## Traineeships

The following table provides a summary of the qualifications in version 4 of the ICT10 Integrated Telecommunications Training Package and the accredited traineeship courses they will replace.

| Version 3 Current Qualification |  |  |       | Version 4 Replacement Qualification |             |   |       |
|---------------------------------|--|--|-------|-------------------------------------|-------------|---|-------|
| National ID                     | Title  | Traineeship  | Hours | E/NE                                | National ID | Title   | Hours |
| ICT20210                        | Certificate II in Telecommunications                     | Telecommunications (Level 2)   | 490   | E                                   | ICT20213    | Certificate II in Telecommunications          | 505   |
| ICT20310                        | Certificate II in Telecommunications Cabling             | Telecommunications (Cabling) (Level 2)                               | 570   | E                                   | ICT20313    | Certificate II in Telecommunications Cabling  | 585   |
|                                 |  | Telecommunications Access Network (Level 2)                          |       |                                     |             |   |       |
| ICT30210                        | Certificate III in Telecommunications                    | Telecommunications (Level 3)   | 525   | E                                   | ICT30213    | Certificate III in Telecommunications         | 565   |
| ICT30310                        | Certificate III in Telecommunications Cabling            | Telecommunications Cabling and Customer Premises Equipment (Level 3) | 560   | E                                   | ICT30313    | Certificate III in Telecommunications Cabling | 560   |
| ICT40210                        | Certificate IV in Telecommunications Network Engineering | Telecommunications Engineering (Level 4)                             | 660   | -                                   |             | No change                                     |       |