



**Australian Government**

**ICT30813 Certificate III in  
Telecommunications Fixed Wireless  
Installation**

**Release 2**

## ICT30813 Certificate III in Telecommunications Fixed Wireless Installation

### Modification History

Release	Comments
Release 2	<p>This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 3.0</i>.</p> <p>Units updated to current versions.</p>
Release 1	<p>This qualification first released with <i>ICT10 Integrated Telecommunications Training Package Version 2.0</i>.</p>

## Description

This qualification reflects the role of an operator in the telecommunications industry who can apply a broad range of competencies using a defined range of skills where some discretion and judgement is required in the selection, installation and configuration of equipment in convergence technologies that integrate radio, optical and internet protocol (IP) based applications.

This role includes assessing installation requirements, planning and performing installations, testing installed equipment and fault finding. It involves a degree of autonomy and may include some supervision of others involving known routines and procedures and some accountability for the quality of outcomes.

This qualification prepares an individual for entry to the industry into the mainstream of telecommunications convergence technologies of radio, optical, data and IP networks.

An operator uses skills to install and maintain radio antennas on domestic and commercial buildings for fixed wireless broadband services and install and maintain Network Terminal Devices in domestic and commercial premises connected to the radio antennas.

## Job roles

Job roles and titles vary across different sectors of the industry. Possible job titles relevant to this qualification include:

- telecommunications fixed wireless network equipment installer
- telecommunications voice and data equipment installer
- telecommunications tradesperson.

## **Pathways Information**

### **Pathways into the qualification**

Preferred pathways for candidates considering this qualification include:

- after achieving a Certificate II qualification from this or another endorsed Training Package or endorsed course

or

- with substantial vocational experience but without a formal qualification.

### **Pathways from the qualification**

After achieving the ICT30813 Certificate III in Telecommunications Fixed Wireless Installation, candidates seeking to develop more specialised technical skills and knowledge, may select from a range of Certificate IV qualifications in the ICT10 Integrated Telecommunications Training Package.

## Licensing/Regulatory Information

The completion of units ICTWHS2170B, ICTWHS2170A or ICTOHS2170A and ICTCBL136B meets the ACMA requirements for Cabling Provider Rules (CPR) restricted registration.

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

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

### 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, Plumbing and Services Training Package fulfils this requirement.

Note: ICTOHS2153A Work safely near power infrastructure should be included in the qualification packaging where there is a likelihood of working near power infrastructure. If state or territory law requires a licence to operate an elevated work platform (EWP), TLILIC2005A Licence to operate a boom-type elevating work platform (boom length 11 metres or more) should be completed concurrently with ICTOHS2153A.

### Volume of Learning

The volume of learning of a Certificate III is typically 1-2 years.

Up to 4 years may be required to achieve the learning outcomes through a program of indentured training/employment.

## Entry Requirements

There are no entry requirements for this qualification.

## Employability Skills Summary

Employability skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> <li>• conveying information to clients, colleagues and other site personnel</li> <li>• completing job reports and compliance forms</li> <li>• communicating with customers to arrange time and access for the installation of systems and equipment</li> <li>• documenting and communicating work-related information, including reporting of faults and problems</li> <li>• providing feedback to customers on operating the equipment</li> </ul>
Teamwork	<ul style="list-style-type: none"> <li>• participating in a team structure by identifying team members, tasks and goals and recognising and responding positively to conflict</li> <li>• working with team members to work with clients and install equipment</li> <li>• relating personal role to the industry</li> <li>• applying interpersonal skills with clients, employer, supervisors, work associates, team members and other contractors</li> <li>• giving and receiving feedback to assist in meeting team and organisation goals</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>• identifying barriers to installation and developing strategies to overcome them within time and budget restrictions</li> <li>• identifying faults or optimisation options</li> <li>• rectifying faults and adjusting system to optimal operation</li> <li>• determining cable routes taking into account building services, safety, industry codes and practices, and customer requirements</li> <li>• following up promptly on difficulties and known problem areas</li> <li>• ranking likely causes of fault in order of probability to ensure a methodical approach to fault identification</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>• identifying barriers to installation and developing strategies to overcome them within time and budget restrictions</li> <li>• adapting a plan to suit specific features of site</li> <li>• identifying issues and possible solutions within established guidelines</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>• gathering data for the installation of systems and equipment</li> <li>• developing a plan for the recovery of equipment from customer premises</li> <li>• planning the installation of cable, taking into account</li> </ul>

	<ul style="list-style-type: none"> <li>technical, scheduling and financial considerations</li> <li>• interpreting design and relating to site characteristics</li> <li>• prioritising work according to organisation guidelines</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>• developing installation plans to ensure minimal disruption to the workplace</li> <li>• checking that tools and equipment are in safe working order and adjusted to manufacturer specification</li> <li>• applying all related OHS requirements and work practices, including job safety analysis (JSA), protective clothing and personal safety items</li> <li>• relating own role to the industry and establishing own work schedule</li> <li>• using strategies to present a professional image to customers</li> <li>• interpreting and applying relevant regulations and standards</li> </ul>
Learning	<ul style="list-style-type: none"> <li>• assessing customer's expertise and training needs and conducting training in the use of systems and equipment</li> <li>• making clients aware of opportunities that exist for system upgrades, additional services and training</li> <li>• seeking assistance from team members when necessary</li> <li>• giving and receiving feedback</li> <li>• providing suitable training and assessment opportunities for work team members</li> <li>• providing training to customers on system, product, product features and facilities</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• installing and operating telecommunications broadband equipment and products</li> <li>• installing and operating CPE equipment and products</li> <li>• installing and configuring access network devices</li> <li>• checking tools and test equipment for accuracy</li> <li>• identifying, replacing or repairing faulty parts and equipment</li> </ul>

## Packaging Rules

**Total number of units = 12**

**5 core units, *plus***

**7 elective units, *of which:***

- 1 unit must be from Group A Workplace
- 3 units must be from Group B Fixed wireless installer, one of which may be substituted with a Group A unit if required by a specific job role
- 3 units must be from Group C General elective units, up to two of which may be from elsewhere in this Training Package, another Training Package or endorsed course at Certificate II, III or IV level.

Elective units must be relevant to the work outcome, local industry requirements and the qualification level.

### Core units

ICTBWN3205A Use optical and radio frequency measuring instruments

ICTTEN2008A Use electrical skills in telecommunications work

ICTTEN2140B Use hand and power tools

ICTTEN3056A Install telecommunications network equipment

ICTWHS2170B Follow work health and safety and environmental policies and procedures

### Elective units

#### Group A Workplace

BSBSMB305A Comply with regulatory, taxation and insurance requirements for the micro business

BSBSMB306A Plan a home based business

BSBSUS201A Participate in environmentally sustainable work practices

BSBSUS301A Implement and monitor environmentally sustainable work practices

ICASAS305A Provide IT advice to clients

ICTEDU3053A Train customers in new technology

ICTSMB4160A Set up and operate a contractor business

ICTSMB4161A Operate a contractor business with employees

ICTWOR3028A Organise resources

ICTWOR3035A Organise material supply

ICTWOR3127A Supervise worksite activities

#### Group B Fixed wireless installer

ICTDRE3156B Install digital reception equipment

ICTDRE3157B Locate and rectify digital reception equipment faults

ICTDRE3165A Install a complex digital reception system

ICTRFN3055A Install a radio communications antenna and feedline



## Group C General elective units

CPCCOHS1001A Work safely in the construction industry  
ICAICT302A Install and optimise operating system software  
ICAICT303A Connect internal hardware components  
ICANWK305A Install and manage network protocols  
ICANWK417A Build an enterprise wireless network  
ICASAS301A Run standard diagnostic tests  
ICTBWN3082B Perform tests on optical communication system and components  
ICTBWN3088B Install optical fibre splitters in fibre distribution hubs  
ICTBWN3090B Install lead-in module and cable for fibre to the premises  
ICTBWN3100A Work safely with live fibre to test and commission a fibre to the x installation  
ICTCBL2064A Haul underground cable  
ICTCBL2065B Splice and terminate optical fibre cable for carriers and service providers  
ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule (where ACMA Restricted Registration is necessary)  
ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule  
ICTCBL2139B Apply safe technical work practices for cabling registration  
ICTCBL3009B Install, terminate and certify structured cabling installation  
ICTCBL3010B Install and terminate optical fibre cable on customer premises  
ICTCBL3011B Install and terminate coaxial cable  
ICTCBL3013A Perform cable and system test on customer premises  
ICTCBL3014A Hand over systems and equipment  
ICTCBL3015A Locate and identify cable system faults  
ICTCBL3018A Install underground enclosures and conduit  
ICTCBL3019A Install underground cable  
ICTCBL3020A Construct aerial cable supports  
ICTCBL3021A Install aerial cable  
ICTCBL3049A Install systems and equipment on customer premises  
ICTCBL3052A Cut over new systems and equipment on customer premises  
ICTCBL3067A Modify and cut over cable  
ICTCBL3069A Install network cable equipment  
ICTCMP2022B Organise and monitor cabling to ensure compliance with regulatory and industry standards  
ICTCMP2239B Perform restricted customer premises broadband cabling work: ACMA Restricted Rule  
ICTOHS2080A Provide telecommunications services safely on roofs  
ICTOHS2153B Work safely near power infrastructure  
ICTRFN3146A Install WiMAX customer premises equipment broadband wireless access equipment  
ICTRFN3155A Construct and test a radio communications device  
ICTRFN3175A Operate and maintain radio communications technical instruments and field equipment  
ICTTEN2219A Install and test an internet protocol device in convergence networks  
ICTTEN3054B Provide infrastructure for telecommunications network equipment  
ICTTEN3063A Locate, identify and rectify recurrent network faults

ICTTEN3074A Recover customer premises equipment  
 ICTTEN3075A Refurbish customer premises equipment  
 ICTTEN3077B Commission an electronic unit  
 ICTTEN4198A Install, configure and test an internet protocol network  
 TLILIC2005A Licence to operate a boom-type elevating work platform (boom length 11 metres or more).

## Prerequisite Units

*The following unit in this qualification has the prerequisite unit detailed below.*

<b>Code and title</b>	<b>Prerequisite unit required</b>
ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule	ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule
ICTCMP2239B Perform restricted customer premises broadband cabling work: ACMA Restricted Rule	ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule