



Australian Government

ICT20313 Certificate II in Telecommunications Cabling

Release 1

ICT20313 Certificate II in Telecommunications Cabling

Modification History

Release	Comments
Release 2	This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 3.0.</i> Change in WHS core unit.
Release 1	This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 1.0.</i>

Description

This qualification reflects the role of an operator in the telecommunications industry who can apply a broad range of competencies in a varied work context of installation of telecommunications and data cabling and cabling products on customer premises.

Cabling at the customer premises must be carried out according to requirements of the Australian Communications and Media Authority (ACMA) and relevant industry registration bodies, and in line with the specifications of the access network owner.

This qualification prepares an individual for entry to the industry.

Job Roles

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

- data cabler
- carrier services cabler
- security alarm cabler
- telecommunications access network cabler
- telecommunications tradesperson
- infrastructure cabler.
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Prerequisite units

The following units within this qualification have prerequisites. This is detailed as follows:

Code and title	Prerequisite unit required
ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule	ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule

Pathways Information

Pathways into the qualification

Candidates may enter this qualification with limited or no vocational experience and without a relevant lower level qualification.

Pathways from the qualification

After achieving ICT20313 Certificate II in Telecommunications Cabling, candidates may undertake ICT30313 Certificate III in Telecommunications Cabling, a qualification for those seeking to develop more specialised technical skills and knowledge, or a range of other Certificate III qualifications.

Licensing/Regulatory Information

The completion of unit ICTWHS2170B and the six unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B, ICTCBL2012B, ICTCBL2017B and ICTCMP2022B that meets the Australian Communications and Media Authority (ACMA) requirements for Cabling Provider Rules (CPR) open registration, is generally used as a part of a more specialised customer cabling qualification. This set is regarded as more suitable for new entrants where limited or no industry experience has been obtained and forms the major part of specialised qualifications in this qualification.

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.

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"> • confirming approval for time and method of site access with customers • documenting and communicating work-related information, including reporting of faults and problems
Teamwork	<ul style="list-style-type: none"> • participating in a team structure by identifying team members, tasks and goals and recognising and responding positively to conflict
Problem solving	<ul style="list-style-type: none"> • determining cable routes, taking into account building services, safety, industry codes and practices, and customer requirements • evaluating earthing needs for cable systems on customer premises • following up promptly on difficulties and known problem areas
Initiative and enterprise	<ul style="list-style-type: none"> • reading and understanding plans and designs to acknowledge local physical conditions • identifying issues and possible solutions within established guidelines
Planning and organising	<ul style="list-style-type: none"> • planning and organising installation and operation of telecommunications equipment and products
Self-management	<ul style="list-style-type: none"> • relating own role to the industry and establishing own work schedule • using strategies to present a professional image to customers
Learning	<ul style="list-style-type: none"> • seeking assistance from team members • giving and receiving feedback • providing suitable training and assessment opportunities for work team members
Technology	<ul style="list-style-type: none"> • installing and operating telecommunications customer equipment, customer products and test equipment

Packaging Rules

Total number of units = 12

5 core units, plus

1 elective unit from Group A workplace units, plus

6 elective units from Group B general units

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

A maximum of two units from Group B general elective units may be substituted with two units of competency from any endorsed Training Package or accredited course at Certificate II or Certificate III level. One of those two units from Group B general electives may be substituted with a Group A workplace elective unit where required by a specific job role.

Units selected from other Training Packages or accredited courses must not duplicate units selected from or available within the ICT10 Integrated Telecommunications Training Package.

If the six unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B, ICTCBL2012B, ICTCBL2017B and ICTCMP2022B has been selected, units ICTCBL2136B and ICTCBL2137B cannot also be selected as elective units.

CORE UNITS

BSBSUS201A Participate in environmentally sustainable work practices

ICTTEN2008A Use electrical skills in telecommunications work

ICTTEN2140B Use hand and power tools

ICTTEN2219A Install and test internet protocol devices in convergence networks

ICTWHS2170B Follow work health and safety and environmental policies and procedures

ELECTIVE UNITS

Group A - Workplace elective units

BSBCUS201B Deliver a service to customers

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

BSBSMB306A Plan a home based business

ICTSMB4160A Set up and operate a contractor business

ICTWOR2141A Work effectively in a telecommunications technology team

Group B - General elective units

Cabling

ICTCBL2005B Install customer cable support systems

ICTCBL2006B Place and secure customer cable

ICTCBL2008B Terminate metallic conductor customer cable
ICTCBL2012B Install functional and protective telecommunications earthing system
ICTCBL2016A Joint metallic conductor cable on customer premises
ICTCBL2017B Alter services to existing cable system
ICTCBL2064A Haul underground cable
ICTCBL2065B Splice and terminate optical fibre cable for carriers and service providers
ICTCBL2066B Joint and terminate coaxial cable
ICTCBL2068A Install a telecommunications service to a building
ICTCBL2131A Install an above ground equipment enclosure
ICTCBL2132A Erect aerial cable supports
ICTCBL2133A Construct underground telecommunications infrastructure
ICTCBL2134A Fix aerial cable
ICTCBL2135A Joint metallic conductor cable in access network
ICTCBL2136B Install, maintain and modify customer premises communications cabling:
ACMA Restricted Rule
ICTCBL2137B Install, maintain and modify customer premises communications cabling:
ACMA Open Rule
ICTCBL2138A Install, maintain and modify customer premises communications cabling:
ACMA Lift Rule
ICTCBL2139B Apply safe technical work practices for cabling registration when configuring
ADSL circuits
ICTCBL2163A Install a cable lead-in
ICTCBL3009B Install, terminate and certify structured cabling installation

Compliance

ICTCMP2239B Perform restricted customer premises broadband cabling work: ACMA
Restricted Rule
ICTCMP2022B Organise and monitor cabling to ensure compliance with regulatory and
industry standards

Occupational health and safety

CPCCOHS1001A Work safely in the construction industry
ICTOHS2080A Provide telecommunications services safely on roofs
ICTOHS2153B Work safely near power infrastructure

Project management

ICTPMG2130A Prepare site for support installation
ICTPMG2173A Plan, organise and undertake work activities

Selecting electives for different outcomes

The context of this qualification varies and this must guide the selection of elective units.

The following examples are designed to assist in the selection of appropriate electives for particular outcomes at this level but they are in no way prescriptive.

Access network cabler

Core units plus one Group A workplace elective unit plus:

- ICTCBL2065B Splice and terminate optical fibre cable for carriers and service providers
- ICTCBL2135A Joint metallic conductor cable in access network
- ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule
- ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule
- ICTCBL2139B Apply safe technical work practices for cabling registration when configuring ADSL circuits
- plus one additional unit from Group B general elective unit as appropriate to the specific job role

CPE cabler for Open Registration (new entrant)

Core units plus one Group A workplace elective unit plus:

- ICTCBL2005B Install customer cable support systems
- ICTCBL2006B Place and secure customer cable
- ICTCBL2008B Terminate metallic conductor customer cable
- ICTCBL2012B Install functional and protective telecommunications earthing system
- ICTCBL2017B Alter services to existing cable system
- ICTCMP2022B Organise and monitor cabling to ensure compliance with regulatory and industry standards

CPE cabler for Open Registration

Core units plus one Group A workplace elective unit plus:

- ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule
- ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule
- ICTCBL2139B Apply safe technical work practices for cabling registration when configuring ADSL circuits
- plus three additional units from Group B general elective units, with a maximum of one of those units from Group A workplace elective units as appropriate to the specific job role

Network infrastructure or security cabler

Core units plus one Group A workplace elective unit plus:

- ICTCBL2066B Joint and terminate coaxial cable
- ICTCBL3009B Install, terminate and certify structured cabling installation
- ICTCBL2136B Install, maintain and modify customer premises communications cabling:
ACMA Restricted Rule
- ICTCBL2139B Apply safe technical work practices for cabling registration when configuring ADSL circuits
- plus one additional unit from Group B general elective units and one unit from Group A workplace elective units as appropriate to the specific job role.