



**Australian Government**

# **ICT20310 Certificate II in Telecommunications Cabling**

**Release 2**

## ICT20310 Certificate II in Telecommunications Cabling

### Modification History

Version	Comments
Release 2	<p>This version released with <i>ICT10 Integrated Telecommunications Training Package v2.0</i>.</p> <p>Updated imported units <i>BSBCUS201A</i> to <i>BSBCUS201B</i>.</p> <p>Qualification outcomes remain unchanged.</p>
Release 1	<p>This qualification first released with <i>ICT10 Integrated Telecommunications Training Package v1.0</i></p>

### Description

#### Descriptor

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 requirements

There are no prerequisite requirements for individual units of competency.

## Pathways Information

### Qualification Pathways

#### 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 the ICT20310 Certificate II in Telecommunications Cabling, candidates may undertake the ICT30310 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

### Licensing, legislative, regulatory or certification considerations

The six unit set ICTCBL2005A, ICTCBL2006A, ICTCBL2008A, ICTCBL2012A, ICTCBL2017A and ICTCMP2022A 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 and Plumbing Services Integrated Framework Training Package fulfils this requirement.

### Prerequisite units

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

ICTCBL2137A Install, maintain and	ICTCBL2136A Install, maintain and
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modify customer premises communications cabling: ACMA Open Rule	modify customer premises communications cabling: ACMA Restricted Rule
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## Entry Requirements

### Entry requirements

There are no entry requirements for this qualification.

## Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> <li>confirming approval for time and method of site access with customers</li> <li>documenting and communicating work-related information, including reporting of faults and problems</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> </ul>
Problem solving	<ul style="list-style-type: none"> <li>determining cable routes, taking into account building services, safety, industry codes and practices, and customer requirements</li> <li>evaluating earthing needs for cable systems on customer premises</li> <li>following up promptly on difficulties and known problem areas</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>reading and understanding plans and designs to acknowledge local physical conditions</li> <li>identifying issues and possible solutions within established guidelines</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>planning and organising installation and operation of telecommunications equipment and products</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>relating own role to the industry and establishing own work schedule</li> <li>using strategies to present a professional image to customers</li> </ul>
Learning	<ul style="list-style-type: none"> <li>seeking assistance from team members</li> <li>giving and receiving feedback</li> <li>providing suitable training and assessment opportunities for</li> </ul>

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
	work team members
Technology	<ul style="list-style-type: none"> <li>installing and operating telecommunications customer equipment, customer products and test equipment</li> </ul>

## 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** ICTCBL2005A, ICTCBL2006A, ICTCBL2008A, ICTCBL2012A, ICTCBL2017A and ICTCMP2022A has been selected, units ICTCBL2136A and ICTCBL2137A cannot also be selected as elective units.

### CORE UNITS

BSBSUS201A Participate in environmentally sustainable work practices

ICTOHS2170A Follow occupational health and safety and environmental policy and procedures

ICTTEN2007A Use electrical skills in telecommunications work

ICTTEN2105A Install and test an internet protocol device in convergence networks

ICTTEN2140A Use hand and power tools

### ELECTIVE UNITS

#### Group A - Workplace elective units

ICTWOR2141A Work effectively in a telecommunications technology team

BSBCUS201B Deliver a service to customers

ICTSMB4160A Set up and operate a contractor business

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

BSBSMB306A Plan a home based business

## **Group B - General elective units**

### **Cabling**

ICTCBL2005A Install customer cable support systems

ICTCBL2006A Place and secure customer cable

ICTCBL2008A Terminate metallic conductor customer cable

ICTCBL2012A Install functional and protective telecommunications earthing system

ICTCBL2016A Joint metallic conductor cable on customer premises

ICTCBL2017A Alter services to existing cable system

ICTCBL2064A Haul underground cable

ICTCBL2065A Splice and terminate optical fibre cable for carriers and service providers

ICTCBL2066A 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

ICTCBL2136A Install, maintain and modify customer premises communications cabling:

ACMA

Restricted Rule

ICTCBL2137A Install, maintain and modify customer premises communications cabling:

ACMA

Open Rule

ICTCBL2138A Install, maintain and modify customer premises communications cabling:

ACMA

Lift Rule

ICTCBL2139A Apply safe technical work practices for cabling registration

ICTCBL2162A Install a cable lead-in

ICTCBL3009A Install, terminate and certify structured cabling installation

### **Compliance**

ICTCMP2022A Organise and monitor cabling to ensure compliance with regulatory and industry standards

### **Occupational health and safety**

ICTOHS2080A Provide telecommunications services safely on roofs

ICTOHS2153A Work safely near power infrastructure

CPCCOHS1001A Work safely in the construction industry

### **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:**

- ICTCBL2065A Splice and terminate optical fibre for carriers and service providers
- ICTCBL2135A Joint metallic conductor cable in Access Network
- ICTCBL2136A Install, maintain and modify customer premises communications cabling:

ACMA Restricted Rule

- ICTCBL2137A Install, maintain and modify customer premises communications cabling:

ACMA Open Rule

- ICTCBL2139A Apply safe technical work practices for cabling registration
- 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:**

- ICTCBL2005A Install customer cable support systems
- ICTCBL2006A Place and secure customer cable
- ICTCBL2008A Terminate metallic conductor customer cable
- ICTCBL2012A Install functional and protective telecommunications earthing system
- ICTCBL2017A Alter services to existing cable system
- ICTCMP2022A 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:**

- ICTCBL2136A Install, maintain and modify customer premises communications cabling:  
ACMA Restricted Rule
- ICTCBL2137A Install, maintain and modify customer premises communications cabling:  
ACMA Open Rule
- ICTCBL2139A Apply safe technical work practices for cabling registration
- 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:**

- ICTCBL2066A Joint and terminate coaxial cable
- ICTCBL3009A Install, terminate and certify structured cabling installation
- ICTCBL2136A Install, maintain and modify customer premises communications cabling:  
ACMA Restricted Rule

- ICTCBL2139A Apply safe technical work practices for cabling registration
- 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
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