

## ICT20113 Certificate II in Telecommunications Technology

### Modification History

Release	Comments
Release 2	This version first released with <i>ICA10 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 has been designed as a pathway for students for entry to the industry.

This qualification provides students with skills and knowledge to enhance their entry-level employment prospects in apprenticeships and traineeships in a range of industries, including telecommunications, information technology and electronics.

### ***Cabling Technician Stream***

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

### ***Digital Reception Stream***

This qualification reflects the role of operators in the telecommunications industry who apply a broad range of competencies in a varied work context of installation of a limited range of digital reception equipment for either a customer or an enterprise. They would perform limited fault finding on a range of digital reception equipment for both cable TV and free to air TV reception.

### ***Networking Stream***

This qualification reflects the role of operators in the telecommunications industry who apply a broad range of competencies of converging technologies in a varied work context to install and maintain IP networks with security in the home and small to medium enterprise networks. They would install software, and configure and test emerging technology network elements in IP networks, including secure wireless LANs, servers and routers for enterprise networks.

## **Job Roles**

Job roles and titles vary across different industry sectors. Dependent on the stream completed, possible job titles relevant to a pathway for this qualification include:

- cabler and installer
- data cabler
- equipment installer
- IP-based network installer
- SME business network installer
- subscription TV installer
- telecommunications equipment operator
- TV and digital TV antenna installer.
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## **Prerequisite requirements**

There are no prerequisite requirements for individual units of competency.

## **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 ICT20113 Certificate II in Telecommunications Technology, candidates may undertake ICT30213 Certificate III in Telecommunications, 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 four unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B and ICTCMP2022B meets the ACMA requirements for Cabling Provider Rules (CPR) restricted registration.

All training programs are 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"> <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>• determining IP network configurations to suit the SME business requirements</li> <li>• assessing the compatibility and interoperability of proposed network installation to existing network</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> <li>• planning and setting up the addressing scheme to allow for enterprise network growth</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>• relating own role to the industry and establishing own work schedule</li> <li>• applying all related WHS requirements and work practices</li> </ul>
Learning	<ul style="list-style-type: none"> <li>• seeking assistance from team members</li> <li>• giving and receiving feedback</li> <li>• interpreting technical information from vendor installation instructions</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• configuring, installing and testing IP-based customer telecommunications network equipment</li> <li>• implementing security measures to meet the SME network requirements</li> </ul>



## **Packaging Rules**

**Total number of units = 11**

**5 core units, plus**

**6 elective units from Group A, or**

**6 elective units from Group B, or**

**6 elective units from Group C**

There is no substitution of elective units.

### **CORE UNITS**

BSBSUS201A Participate in environmentally sustainable work practices

ICTTEN2008A Use electrical skills in telecommunications work

ICTTEN2219A Install and test internet protocol devices in convergence networks

ICTTEN2140B Use hand and power tools

ICTWHS2170B Follow work health and safety and environmental policies and procedures

### **ELECTIVE UNITS**

#### **Group A - Cabling Technician Stream (Restricted Registration)**

BSBCUS201B Deliver a service to customers

ICTCBL2005B Install customer cable support systems

ICTCBL2006B Place and secure customer cable

ICTCBL2008B Terminate metallic conductor customer cable

ICTCBL3049A Install systems and equipment on customer premises

ICTCMP2022B Organise and monitor cabling to ensure compliance with regulatory and industry standards

#### **Group B - Digital Reception Stream**

ICTCBL2163A Install a cable lead-in

ICTCBL3011B Install and terminate coaxial cable

ICTDRE3156B Install digital reception equipment

ICTDRE3157B Locate and rectify digital reception equipment faults

ICTRFN2163B Install a satellite antenna

ICTRFN2164B Install a terrestrial antenna

#### **Group C - Networking Stream**

ICAICT206A Install software applications

ICASAS203A Connect hardware peripherals

ICTTEN2207A Install and configure a home or small office network

ICTTEN2208A Install and configure a small to medium business network

ICTTEN2209A Build and maintain a secure network

ICTTEN2218A Operate new media software packages

# ICT20213 Certificate II in Telecommunications

## 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 from installation to operation of telecommunications equipment and products.

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:

- cabler and installer
- equipment installer
- security alarm installer
- telecommunications equipment operator
- telecommunications tradesperson.
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## Prerequisite requirements

There are no prerequisite requirements for individual units of competency.

## **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 ICT20213 Certificate II in Telecommunications, candidates may undertake ICT30213 Certificate III in Telecommunications, 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 four unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B and ICTCMP2022B that meets the ACMA requirements for Cabling Provider Rules (CPR) restricted 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 such as ICT20313 Certificate II in Telecommunications Cabling.

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.

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"> <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 network equipment power consumption and current from measurements and specification data</li> <li>• evaluating probable solutions to faults involving telecommunications networks and equipment</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> </ul>
Technology	<ul style="list-style-type: none"> <li>• installing and operating telecommunications equipment and products</li> </ul>

## **Packaging Rules**

**Total number of units = 11**

**5 core units, plus**

**1 elective unit from Group A workplace units, plus**

**5 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.

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 four unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B and ICTCMP2022B has been selected, unit ICTCBL2136B cannot also be selected as an elective unit.

### **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

BSBSMB306A Plan a home based 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

ICTCBL2016A Joint metallic conductor cable on customer premises

ICTCBL2017B Alter services to existing cable system

ICTCBL2064A Haul underground cable

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  
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  
ICTCBL2163A Install a cable lead-in

### **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

### **Digital reception technology**

ICTCBL2163A Install a cable lead-in  
ICTRFN2163B Install a satellite antenna  
ICTRFN2164B Install a terrestrial antenna

### **ICT use**

ICAICT206A Install software applications  
ICASAS203A Connect hardware peripherals

### **Occupational health and safety**

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

### **Project management**

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

### **Radio frequency networks**

ICTRFN2163B Install a satellite antenna  
ICTRFN2164B Install a terrestrial antenna

## **Telecommunications engineering networks**

ICTTEN3056A Install telecommunications network equipment

ICTTEN3074A Recover customer premises equipment

### **(IP networks)**

ICTTEN2207A Install and configure a home or small office network

ICTTEN2208A Install and configure a small to medium business network

ICTTEN2209A Build and maintain a secure network

ICTTEN2218A Operate new media software packages

## 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:

<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

## **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"> <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 work team members</li> </ul>
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 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.

# ICT20413 Certificate II in Telecommunications Digital Reception Technology

## 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 a limited range of digital reception equipment for either a customer or an enterprise. They would perform limited fault finding on a range of digital reception equipment for both cable TV and free to air TV reception.

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:

- TV and digital TV antenna installer
- subscription TV installer
- satellite TV installer
- free to air TV installer.
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## **Prerequisite requirements**

There are no prerequisite requirements for individual units of competency.

## **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 ICT20413 Certificate II in Telecommunications Digital Reception Technology, candidates may undertake ICT30413 Certificate III in Telecommunications Digital Reception Technology, a qualification for those seeking to develop more specialised technical skills and knowledge, or a range of other Certificate III qualifications.

## **Licensing/Regulatory Information**

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"> <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> <li>• providing correct literature to the customer, including explanatory booklets, manuals, training aids, user guides, equipment plans and configuration</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>• applying interpersonal skills with clients, employer, supervisors, work associates, team members and other contractors</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>• determining cable routes and antenna siting 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 issues and possible solutions within established guidelines</li> <li>• providing customers with temporary or replacement equipment similar to existing equipment</li> <li>• regularly verifying continued existence of problem</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>• planning and organising installation and operation of TV equipment and products</li> <li>• prioritising work according to organisation guidelines</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> <li>• interpreting and applying relevant regulations and</li> </ul>



<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
	standards <ul style="list-style-type: none"> <li>• applying all related WHS requirements and work practices</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 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 TV equipment and products</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**

**8 core units, plus**

**1 elective unit from Group A workplace units, plus**

**1 elective unit from Group B specialist units, plus**

**2 elective units from Group C 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 C 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 C general elective units 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.

### **CORE UNITS**

BSBSUS201A Participate in environmentally sustainable work practices

ICTCBL3011B Install and terminate coaxial cable

ICTDRE3156B Install digital reception equipment

ICTDRE3157B Locate and rectify digital reception equipment faults

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

ICTEDU3053A Train customers in new technology

ICTPMG2173A Plan, organise and undertake work activities

ICTSMB4160A Set up and operate a contractor business

ICTWOR2141A Work effectively in a telecommunications technology team

#### **Group B - Specialist elective units**

ICTCBL2163A Install a cable lead-in

ICTRFN2163B Install a satellite antenna

ICTRFN2164B Install a terrestrial antenna

### **Group C - General elective units**

#### **Cabling**

ICTCBL2016A Joint metallic conductor cable on customer premises

ICTCBL2017B Alter services to existing cable system

ICTCBL2066B Joint and terminate coaxial cable

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

ICTCBL3015A Locate and identify cable system faults

#### **Compliance**

ICTCMP2022B Organise and monitor cabling to ensure compliance with regulatory and industry standards

#### **ICT use**

ICAICT206A Install software applications

ICASAS203A Connect hardware peripherals

#### **Occupational health and safety**

ICTOHS2080A Provide telecommunications services safely on roofs

ICTOHS2153B Work safely near power infrastructure

CPCCOHS1001A Work safely in the construction industry

#### **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.

#### ***Antenna installer***

Core units plus one Group A workplace elective unit plus:

- ICTRFN2164B Install a terrestrial antenna
- two Group C general elective units

#### ***Contractor***

Core units plus one Group B specialist elective unit as appropriate to the specific job role plus:

- ICTSMB4160A Set up and operate a contractor business
- two Group C general elective units

***Free to air TV installer***

Core units plus one Group A workplace elective unit plus:

- ICTRFN2163B Install a satellite antenna
- two Group C general elective units

***Subscription TV installer***

Core units plus one Group A workplace elective unit plus:

- ICTCBL2163A Install a cable lead-in
- two Group C general elective units

# ICT20513 Certificate II in Telecommunications Fixed Wireless and Rigging Installation

## Modification History

Release	Comments
Release 2	This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 3.0</i> .  Units updated to current versions.
Release 1	This qualification first released with <i>ICT10 Integrated Telecommunications Training Package Version 2.0</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 from installation and maintenance of telecommunications equipment installed in base stations or mounted on structures requiring rigging skills.

This qualification has two streams that prepare an individual for entry to the industry in a specialised area of installation of telecommunication equipment on high structures including radio towers or for installation and connection of wireless base stations.

An operator uses rigging skills to install and maintain radio antennas on radio towers and build and mount sections of radio masts for a complete radio structure.

### Job roles

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

- installer of radio telecommunications equipment on structures
- installer of radio equipment and cabling on radio towers
- installer of radio base stations
- telecommunications rigger tradesperson.

## **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 the ICT20513 Certificate II in Telecommunications Rigging Installation, candidates may undertake the ICT30513 Certificate III in Telecommunications Rigging Installation, a qualification for those seeking to develop more specialised technical skills and knowledge, or a range of other Certificate III qualifications.

## **Licensing/Regulatory Information**

### ***Cabling***

The completion of unit ICTWHS2170B, ICTWHS2170A or ICTOHS2170A 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, 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 such as ICT20310 Certificate II in Telecommunications Cabling.

For cabling 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.

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

### ***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

### **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).

### **Volume of Learning**

The volume of learning of a Certificate II is typically 0.5 – 1 year.

## **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>• 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> </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> </ul>
Technology	<ul style="list-style-type: none"> <li>• installing and operating telecommunications equipment and products</li> </ul>



## Packaging Rules

Total number of units = 13

6 core units, *plus*

7 elective units, *of which:*

- 4 units from Group A Fixed wireless or Group B Rigging installation
- 3 units must be from Group C General elective units, up to 2 of which may be substituted with two units from elsewhere in this Training Package, another Training Package or accredited course at Certificate II or III level.

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

If the four unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B and ICTCMP2022B has been selected, unit ICTCBL2136B cannot also be selected as an elective unit.

### Core units

CPCCOHS1001A Work safely in the construction industry

ICTTCR2189A Use operational safety in a telecommunications rigging environment

ICTTEN2008A Use electrical skills in telecommunications work

ICTTEN2140B Use hand and power tools

ICTWHS2170B Follow work health and safety and environmental policies and procedures

ICTWOR2141A Work effectively in a telecommunications technology team

### Elective units

#### Group A Fixed wireless specialist stream

ICTCBL2012B Install functional and protective telecommunications earthing system

ICTRFN3055A Install a radio communications antenna and feedline

ICTRFN4177A Install radio communications base station equipment

ICTTEN2219A Install and test an internet protocol device in convergence networks

#### Group B Rigging installation specialist stream

CPCCLDG3001A Licence to perform dogging

CPCCLRG3001A Licence to perform rigging basic level

ICTTCR2188A Use rigging practices and systems on telecommunications network structures

ICTTCR2190A Use safe rigging practices to climb and perform rescues on telecommunications network structures

#### Group C General elective units

BSBCUS201B Deliver a service to customers

BSBSUS201A Participate in environmentally sustainable work practices

CPCCLRG3002A Licence to perform rigging intermediate level

CPCCLRG4001A Licence to perform rigging advanced level  
 ICTCBL2005B Install customer cable support systems  
 ICTCBL2006B Place and secure customer cable  
 ICTCBL2008B Terminate metallic conductor customer cable  
 ICTCBL2016A Joint metallic conductor cable on customer premises  
 ICTCBL2017A Alter services to existing cable system  
 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  
 ICTCBL2136B Install, maintain and modify customer premises communications cabling:  
 ACMA Restricted Rule  
 ICTCBL2139B Apply safe technical work practices for cabling registration  
 ICTCBL2163A Install a cable lead-in  
 ICTCMP2022B Organise and monitor cabling to ensure compliance with regulatory and industry standards  
 ICTOHS2080A Provide telecommunications services safely on roofs  
 ICTOHS2153B Work safely near power infrastructure  
 ICTPMG2130A Prepare site for support installation  
 ICTPMG2173A Plan, organise and undertake work activities  
 ICTRFN2163B Install a satellite antenna  
 ICTRFN2164B Install a terrestrial antenna  
 ICTWHS2081A Work safely in a radio frequency electromagnetic radiation environment

## Prerequisite Units

The following units in this qualification have the prerequisite units detailed below.

Code and title	Prerequisite units require
CPCCLRG3002A Licence to perform rigging intermediate level	CPCCLRG3001A Licence to perform rigging basic level
CPCCLRG4001A Licence to perform rigging advanced level	CPCCLRG3002A Licence to perform rigging intermediate level

## ICT20613 Certificate II in National Broadband Network Construction

### 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 has been designed as a pathway for entry into work on the National Broadband Network (NBN).

This qualification provides the skills and knowledge required to enhance entry-level employment prospects in apprenticeships and traineeships in a range of NBN industry occupations specifically for the national rollout of high speed broadband network infrastructure.

In conjunction with safe working practices, one of two specialist streams is to be undertaken as described:

### ***Telecommunications linesworker***

This stream reflects the role of operators in performing cable and infrastructure work underground. This involves safe civil and construction work in site preparation, building of enclosures, installing mounting brackets, hauling of underground cables and providing traffic management. It also reflects the role of operators in performing work safely aboveground to install fibre or metallic aerial cable and infrastructure. These will also include installation of aerial lead-in cables to customer premises.

### ***Telecommunications installer***

This stream reflects the role of operators in performing equipment and system installation work on customer network to enable efficient access and interconnection to the NBN services. This includes diagnosing and rectifying cable system faults to maximise benefits of the high speed broadband connection.

## **Job roles**

Job roles and titles are dependent on the stream completed, possible job titles relevant to a pathway for this qualification include:

- telecommunications linesworker
- telecommunications broadband network installer.

## **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 the ICT20613 Certificate II in National Broadband Network Construction, candidates may undertake the ICT30713 Certificate III in National Broadband Network Construction, 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, ICTWHS2170A or ICTOHS2170A and the unit set of ICTCBL2136B and ICTCBL2137B meets the ACMA requirements for Cabling Provider Rules (CPR) open registration.

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

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

Much of the NBN cabling and installation work falls within the definition of construction work in a cable provisioning construction site. If so, anyone entering the construction site is 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 as part of the core group of this qualification, 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 II is typically 0.5 – 1 year.

## **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>• communicating benefits of high speed broadband to community for successful NBN rollout</li> <li>• notifying any safety aspects to supervisor</li> <li>• conducting and communicating traffic management instructions for improved public safety</li> <li>• documenting test methods and results</li> <li>• completing cable and equipment labelling and cable records</li> <li>• conveying information to clients, colleagues and other site personnel</li> <li>• completing job reports and compliance forms</li> <li>• interpreting plan as a set of basic functions to be implemented</li> <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>• continually fostering effective teamwork for effective NBN rollout</li> <li>• identifying members and roles of team between management and workforce, between aerial and underground teams and between installation and testing teams</li> <li>• working with team members to work with clients and provide service</li> <li>• relating personal role to the industry</li> <li>• participating in a team structure by identifying team members, tasks and goals and recognising and responding positively to conflict</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>• ranking sequences of operations from site preparation to cabling to ensure a methodical and effective approach to</li> </ul>

	<p>NBN rollout</p> <ul style="list-style-type: none"> <li>• identifying barriers to installation and developing strategies to overcome them within time and budget restrictions</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> </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>• continually suggesting ways for improving practices to suit specific site of NBN infrastructure rollout</li> <li>• prioritising urgent requests and acting according to organisational guidelines</li> <li>• adapting 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>• developing NBN rollout plans to ensure minimal disruption to the workplace and the public</li> <li>• identifying realistic short and long-term career objectives</li> <li>• planning and provisioning to meet key milestones</li> <li>• gathering data for the installation of cable systems and NBN specific equipment</li> <li>• planning the installation of fibre cable, taking into account 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>• identifying and setting realistic short and long-term career objectives</li> <li>• managing personal time to assist effective rollout</li> <li>• identifying work to be completed</li> <li>• checking that tools and equipment are in safe working order and comply to manufacturer specification</li> <li>• personally 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> </ul>



	<ul style="list-style-type: none"> <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>• learning from previous experiences in order to improve future practices in NBN rollout</li> <li>• learning of methodologies of fibre splicing and adapting to current practices</li> <li>• giving and receiving feedback to assist in meeting team and organisation goals</li> <li>• making clients aware of opportunities that exist with higher broadband speed offered by NBN and offering training information on upgrades and additional services</li> <li>• seeking assistance from team members when necessary</li> <li>• providing suitable training and assessment opportunities for work team members on NBN technologies by equipment suppliers</li> <li>• providing training to customers on system, product, product features and facilities</li> <li>• relating current or intended role to career objectives in a positive manner</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• familiarising with new fibre technologies for NBN deployment</li> <li>• ensuring that range of technologies (optical &amp; radio) used in NBN infrastructure rollout are effectively and efficiently deployed to manufacturers specifications</li> <li>• checking that advanced tools and equipment are in safe working order and adjusted to manufacturer specifications</li> <li>• testing and measuring of broadband network infrastructure</li> <li>• installing, configuring and operating NBN optical and radio equipment and products</li> <li>• identifying, replacing or repairing faulty parts and equipment</li> </ul>

## Packaging Rules

Total number of units = 12

7 core units *plus*

5 elective units, *of which*:

- **3 units must be from Group A Telecommunications linesworker or Group B Telecommunications broadband network installer**
- **2 units must be from Group C General elective units or from elsewhere in this Training Package, another Training Package or accredited course at Certificate II or III level.**

Elective units chosen must be relevant to the work and industry context for project practice.

This qualification meets the requirements for the NBN infrastructure rollout and has been developed for specific occupational outcomes. Due to the specialised technical nature of the work, there is provision for choice of specialisation streams but there is no allowance for substitution of elective units in the specialised group. However, the two elective units from Group C can be selected to meet relevant national broadband work outcome and local industry requirements

### Core units

CPCCOHS1001A Work safely in the construction industry

ICTCBL2064A Haul underground cable

ICTCBL2065B Splice and terminate optical fibre cable for carriers and service providers

ICTCBL2163A Install a cable lead-in

ICTTEN2008A Use electrical skills in telecommunications work

ICTWHS2170B Follow work health and safety and environmental policies and procedures

ICTWOR2141A Work effectively in a telecommunications technology team

### Elective units

#### Group A Telecommunications linesworker

ICTCBL2131A Install an above ground equipment enclosure

ICTCBL2133A Construct underground telecommunications infrastructure

ICTCBL2134A Fix aerial cable

#### Group B Telecommunications broadband network installer

ICTBWN3090B Install lead-in module and cable for fibre to the premises

ICTCBL2136B Install, maintain and modify customer premises communications cabling:

ACMA Restricted Rule

ICTCBL2137B Install, maintain and modify customer premises communications cabling:

ACMA Open Rule

ICTCMP2239B Perform restricted customer premises broadband cabling work: ACMA Restricted Rule

## Group C General elective units

BSBSUS201A Participate in environmentally sustainable work practices

HLTAID001 Provide cardiopulmonary resuscitation

HLTAID003 Provide first aid

ICTOHS2153B Work safely near power infrastructure

ICTTEN2219A Install and test an internet protocol device in convergence networks

ICTTEN2140B Use hand and power tools

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
ICTCMP2239A Perform restricted customer premises broadband cabling work: ACMA Restricted Rule	ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule

