



Australian Government

ICT20315 Certificate II in Telecommunications Technology

Release 1

ICT20315 Certificate II in Telecommunications Technology

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Qualification Description

This qualification reflects the role of a new entrant into the telecommunications industry who can apply a range of competencies in a varied work context from installation to operation of telecommunications equipment and products.

The qualification has a generic outcome if no specialisation has been undertaken. When a specialisation has been selected then the qualification has one of the following outcomes.

Cabling

This specialisation reflects the role of an operator for the installation of telecommunications equipment, data cabling and cabling products on customer premises.

Networking

This specialisation reflects the role of an operator for 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.

Radio Communications

This specialisation reflects the role of an operator for the installation and maintenance of telecommunications radio communications equipment installed in base stations. It prepares an individual for entry to the industry in a general area of installation of telecommunication radio communications equipment and connection of wireless base stations.

Rigging

This specialisation reflects the role of an operator for the installation and maintenance of telecommunications equipment installed on structures requiring rigging skills. It prepares 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.

Licensing/Regulatory Information

Work functions in the occupational areas where this qualification may be used are subject to regulatory requirements. Refer to the ICT Implementation Guide Companion Volume or the relevant regulator for details of licensing, legislative or certification requirements.

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.

Refer to "Pathways to ACMA Cabling Provider Rules - Cabling registration" and the mandatory industry practical hours required for registration.

Dogging and rigging are classified under the National Standards for licensing persons performing high risk work. Age restrictions apply to eligibility for licencing. Please refer to the relevant federal and state legislation to ensure compliance with the regulations.

Entry Requirements

Nil

Packaging Rules

Total number of units = 15

6 core units plus

9 elective units

The elective units consist of:

- up to 9 may be from any group of elective units listed below
- up to 2 units from elsewhere in this Training Package, or another currently endorsed Training Package or accredited course at AQF Level 2 or 3.

Elective units must be relevant to the work environment and the qualification, maintain the integrity of the Australian Quality Framework (AQF) alignment and contribute to a valid, industry-supported vocational outcome.

Units selected from other Training Packages or accredited courses must not duplicate units selected from, or available within, the ICT Information and Communications Technology Training Package.

Refer to the *Specialisations* information below, and to the Companion Volume Implementation Guide, for advice about choosing electives to support specialisations in particular sectors of the information and communications industry.

Core Units

BSBSUS201 Participate in environmentally sustainable work practices

ICTTEN201 Use electrical skills in telecommunications work

ICTTEN202 Use hand and power tools

ICTTEN207 Install and test internet protocol devices in convergence networks

ICTWHS204 Follow work health and safety and environmental policy and procedures

ICTWOR201 Work effectively in telecommunications technology

Elective Units

Group A Radio communications and rigging

ICTTCCR201 Use rigging practices and systems on telecommunications network structures

ICTTCCR202 Use operational safety in a telecommunications rigging environment

ICTTCCR203 Use safe rigging practices to climb and perform rescues on telecommunications network structures

CPCCLDG3001A Licence to perform dogging

CPCCLRG3001A Licence to perform rigging basic level*

ICTRFN201 Install a satellite antenna

ICTRFN202 Install a terrestrial antenna

ICTRFN304 Construct and test a radio communications device

Group B Cabling

ICTCBL201 Install customer cable support systems

ICTCBL202 Place and secure customer cable

ICTCBL203 Terminate metallic conductor customer cable
ICTCBL204 Install functional and protective telecommunications earthing system
ICTCBL205 Joint metallic conductor cable on customer premises
ICTCBL206 Alter services to existing cable system
ICTCBL207 Haul underground cable
ICTCBL208 Splice and terminate optical fibre cable for carriers and service providers
ICTCBL209 Joint and terminate coaxial cable
ICTCBL210 Install a telecommunications service to a building
ICTCBL211 Install an above ground equipment enclosure
ICTCBL212 Erect aerial cable supports
ICTCBL213 Construct underground telecommunications infrastructure
ICTCBL214 Fix aerial cable
ICTCBL215 Joint metallic conductor cable in access network
ICTCBL219 Apply safe technical work practices for cabling registration when configuring an ADSL circuit
ICTCBL220 Install a cable lead-in
ICTCBL236 Install, maintain and modify customer premises communications cabling:
ACMA Restricted Rule*
ICTCMP201 Organise and monitor cabling to ensure compliance with regulatory and industry standards
ICTCMP202 Perform restricted customer premises broadband cabling work: ACMA Restricted Rule*

Group C Networking

ICTTEN203 Install and configure a home or small office network
ICTTEN204 Install and configure a small to medium business network
ICTTEN205 Build and maintain a secure network
ICTTEN206 Operate new media software packages

Group D General

BSBCUS201 Deliver a service to customers
CPCCOHS1001A Work safely in the construction industry
HLTAID001 Provide cardiopulmonary resuscitation
HLTAID003 Provide first aid
ICTICT206 Install software applications
ICTPMG201 Prepare site for support installation
ICTPMG202 Plan, organise and undertake work activities
ICTSAS203 Connect hardware peripherals
ICTWHS201 Provide telecommunications services safely on roofs
ICTWHS202 Work safely in a radio frequency electromagnetic radiation environment
ICTWHS203 Work safely near power infrastructure

Specialisations

The use of specialist streams is appropriate for this qualification in accordance with the AQF, Standards for Training Packages and the packaging rules. Where a specialist stream is achieved, testamurs must show the appropriate specialisation in brackets. Refer to the Companion Volume Implementation Guide for further advice about specialisations.

The minimum elective units required for the specific specialisations are described below.

Cabling

(Note: See licencing information in the ICT Companion Volume Implementation Guide regarding ACMA registration)

Select at least 6 electives from Group B Cabling.

Networking

Select at least 4 electives from Group C Networking.

Radio Communications

Select the following 3 elective units:

- ICTRFN201 Install a satellite antenna
- ICTRFN202 Install a terrestrial antenna
- ICTRFN304 Construct and test a radio communications device
- plus at least 1 more from Group A Radio communications and rigging.

Rigging

(Note: This specialisation is not suitable for delivery in a school as a Vocational Education and Training (VET) program. See information in the ICT Companion Volume Implementation Guide regarding licencing for dogging and rigging.)

Select the following 4 elective units from Group A Radio communications and rigging:

- ICTTCR202 Use operational safety in a telecommunications rigging environment
- ICTTCR203 Use safe rigging practices to climb and perform rescues on telecommunications network structures
- CPCCLDG3001A Licence to perform dogging
- CPCCLRG3001A Licence to perform rigging basic level*.
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*Note the following prerequisite unit requirements:

Unit in this qualification	Prerequisite unit
CPCCLRG3001A Licence to perform rigging basic level	CPCCLDG3001A Licence to perform dogging
ICTCBL236 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule	ICTWHS204 Follow work health and safety and environmental policy and procedures ICTTEN201 Use electrical skills in telecommunications work
ICTCMP202 Perform restricted customer premises broadband cabling work: ACMA Restricted Rule	ICTCBL236 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule OR ICTCBL201 Install customer cable support systems, and

	ICTCBL202 Place and secure customer cable, and ICTCBL203 Terminate metallic conductor customer cable, and ICTCMP201 Organise and monitor cabling to ensure compliance with regulatory and industry standards
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Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICT20315 Certificate II in Telecommunications Technology	ICT20113 Certificate II in Telecommunications Technology	Updated to meet Standards for Training Packages.	No equivalent qualification
	ICT20213 Certificate II in Telecommunications	Changed packaging rules.	
	ICT20313 Certificate II in Telecommunications Cabling	Changed core units.	
	ICT20413 Certificate II in Telecommunications Digital Reception Technology		
	ICT20513 Certificate II in Telecommunications Fixed Wireless and Rigging Installation		

Links

Companion volumes are available from the IBSA website -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=18