Australian Government

ICT20319 Certificate II in Telecommunications Technology

Release 3

ICT20319 Certificate II in Telecommunications Technology

Modification History

Release	Comments
Release 3	This version released with ICT Information and Communications Technology Training Package Version 8.0. The following units of competency were replaced with the relevant superseding unit of competency: • HLTAID001 Provide cardiopulmonary resuscitation • HLTAID003 Provide first aid • ICTICT206 Install software applications • ICTSAS203 Connect hardware peripherals • UETTDREL14A Working safely near live electrical apparatus as a non-electrical worker. The following superseded units of competency, listed in the Group D Rigging specialisation in *ICT20319 Certificate II in Telecommunications Technology* were replaced with their current versions in this update as directed by the Department of Education, Skills and Employment: • CPCCLDG3001A Licence to perform dogging • CPCCLRG3001A Licence to perform rigging basic level.
Release 2	This version released with ICT Information and Communications Technology Training Package Version 7.1. The following elective units of competency have been deleted as directed by the AISC: • ICTTCR201 Use rigging practices and systems on telecommunications network structures • ICTTCR202 Use operational safety in a telecommunications rigging environment. The above training products were identified as having zero enrolments over a three year period.
Release 1	This version released with ICT Information and Communications Technology Training Package Version 5.0.

Qualification Description

This is an entry-level qualification for telecommunications technology operators who may:

- install telecommunications equipment, data cabling and cabling products on customer premises
- perform fault-finding on a limited range of digital reception equipment for both cable television and free-to-air television reception, for either a customer or an enterprise
- install and maintain telecommunications radio communications equipment in base stations and connect wireless base stations
- install and maintain telecommunications equipment on high structures including radio towers or for installation and connection of wireless base stations.

The qualification is suited to an individual undertaking work experience, or in a probationary period in employment.

It is particularly applicable to school-based delivery as an entry-level pathway to employment and is suitable as an Australian traineeship or apprenticeship pathway, except for the units of competency that involve high-risk work age restrictions.

Licensing/Regulatory Information

Work functions in the occupational areas where this qualification may be used are subject to regulatory requirements. Refer to the ICT Information and Communications Technology Companion Volume Implementation Guide 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.

High risk work (HRW) licences are required for dogging work and rigging as outlined on the Safe Work Australia website.

The model WHS Regulations require people performing HRW to be over 18 years of age and to hold the right HRW licence. HRW licences are issued by state/territory governments: refer to the relevant body to ensure compliance with regulations.

Entry Requirements

Nil.

Packaging Rules

Total number of units = 13

7 core units, plus
6 elective units

The elective units selected may consist of:

- up to 6 units from any group of elective units listed below according to the specialisation packaging rules, outlined below, where a specialisation is the required outcome

- up to 2 units from this Training Package or any currently endorsed Training Package or accredited course where the units are packaged in an Australian Qualifications Framework (AQF) Level 2 or 3 qualification.

Elective units must be relevant to the work environment and the qualification, maintain the integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, 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.

Core units

BSBCUS201 Deliver a service to customers

ICTTEN202 Use hand and power tools

ICTTEN207 Install and test internet protocol devices in convergence networks

ICTTEN208 Use electrical skills when working with telecommunications networks

ICTTEN211 Work effectively in a telecommunications network environment

ICTWHS204 Follow work health and safety and environmental policy and procedures

ICTWOR202 Work effectively in the digital and telecommunications industry

Elective units

Group A Cabling

ICTCBL205 Joint metallic conductor cable on customer premises

ICTCBL206 Alter services to existing cable system

ICTCBL210 Install a telecommunications service to a building

ICTCBL211 Install an above ground equipment enclosure

ICTCBL212 Erect aerial cable supports

ICTCBL219 Apply safe technical work practices for cabling registration when configuring an ADSL circuit

ICTCBL239 Install customer cable support systems

ICTCBL240 Place and secure customer cable

ICTCBL241 Terminate metallic conductor customer cable

ICTCBL242 Install functional and protective telecommunications earthing system

ICTCBL246 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule*

ICTCBL249 Haul underground cable for installation and maintenance work

ICTCBL250 Haul and fix aerial cable

ICTCBL251 Install aerial and underground cable lead-ins

ICTCBL252 Joint and terminate coaxial cable

ICTCBL253 Construct underground telecommunications infrastructure

ICTCBL254 Joint metallic conductor cable in access network

ICTCBL330 Splice and terminate optical fibre cable for telecommunications projects

ICTCMP201 Organise and monitor cabling to ensure compliance with regulatory and industry standards

ICTCMP203 Perform restricted customer premises broadband cabling work: ACMA Restricted Rule*

Group B 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 C Radio Communications

ICTRFN201 Install a satellite antenna

ICTRFN202 Install a terrestrial antenna

ICTRFN304 Construct and test a radio communications device

Group D Rigging

CPCCLDG3001 Licence to perform dogging

CPCCLRG3001 Licence to perform rigging basic level*

ICTTCR203 Use safe rigging practices to climb and perform rescues on telecommunications network structures

Group E General

CPCCWHS1001 Prepare to work safely in the construction industry

HLTAID009 Provide cardiopulmonary resuscitation

OR

HLTAID011 Provide First Aid

ICTICT223 Install software applications

ICTPMG201 Prepare site for support installation

ICTPMG202 Plan, organise and undertake work activities

ICTSAS218 Obtain and connect hardware peripherals

ICTWHS201 Provide telecommunications services safely on roofs

ICTWHS202 Work safely in a radio frequency electromagnetic radiation environment

ICTWHS205 Work safely near power infrastructure at a telecommunications workplace

OR

UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker

*Note the following prerequisite unit requirements:

Prerequisite unit requirements in this qualification

Unit in this qualification	Prerequisite unit
CPCCLRG3001 Licence to perform rigging basic level	CPCCLDG3001 Licence to perform dogging
ICTCBL246 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule	ICTTEN208 Use electrical skills when working with telecommunications networks ICTWHS204 Follow work health and safety and environmental policy and procedures
ICTCMP203 Perform restricted customer premises broadband cabling work: ACMA Restricted Rule	ICTCBL246 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule OR ICTCBL239 Install customer cable support systems and ICTCBL240 Place and secure customer cable and ICTCBL241 Terminate metallic conductor customer cable and ICTCMP201 Organise and monitor cabling to ensure compliance with regulatory and industry standards

Specialisations

Where relevant, specialisations can be used for this qualification in:

- cabling
- networking
- radio communications
- rigging
- telecommunications cabling.

The achievement of a specialisation will be identified on testamurs as follows:

- ICT20319 Certificate II in Telecommunications Technology (Cabling)
- ICT20319 Certificate II in Telecommunications Technology (Telecommunications Cabling)
- ICT20319 Certificate II in Telecommunications Technology (Networking)
- ICT20319 Certificate II in Telecommunications Technology (Radio Communications)

- ICT20319 Certificate II in Telecommunications Technology (Rigging).

Cabling

Select 6 elective units from Group A Cabling.

Telecommunications Cabling

Select the following 2 elective units from Group A Cabling:

- ICTCBL246 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule*
- ICTCMP203 Perform restricted customer premises broadband cabling work: ACMA Restricted Rule*

Select 4 further elective units from the remaining elective units in Group A Cabling.

Networking

Select the 4 elective units from Group B Networking.

Radio Communications

Select the 4 elective units from Group C Radio Communications.

Select at least 1 elective unit from Group D Rigging.

Rigging

Select the 3 elective units from Group D Rigging.

Note: This specialisation is not suitable for school-based delivery due to high-risk work age restrictions.

Qualification Mapping Information

No equivalent qualification. Supersedes and is not equivalent to ICT20315 Certificate II in Telecommunications Technology.

Links

Companion Volume Implementation Guides are available from VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2