



Australian Government

**ICT20219 Certificate II in
Telecommunications Network Build and
Operation**

Release 2

ICT20219 Certificate II in Telecommunications Network Build and Operation

Modification History

| Release | Comments |
|-----------|--|
| Release 2 | <p>This version first released with the Information and Communications Technology Training Package Version 8.0.</p> <p>The following units of competency were replaced with the relevant superseding unit of competency as requested by the Department of Education, Skills and Employment:</p> <ul style="list-style-type: none"> • HLTAID003 Provide First Aid updated to HLTAID011 Provide First Aid • HLTAID001 Provide cardiopulmonary resuscitation updated to HLTAID009 Provide cardiopulmonary resuscitation |
| 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 linesworkers working on the construction and maintenance of high-speed national broadband network (NBN) infrastructure.

Linesworkers may:

- perform cable and infrastructure work underground, which may involve civil and construction work such as site preparation, building of enclosures, installing mounting brackets and hauling underground cables
- work above ground to install fibre or metallic aerial cable and infrastructure, which may also include installing aerial lead-in cables to customer premises and providing traffic management.

Licensing/Regulatory Information

Work functions in the occupational areas where this qualification may be used may be 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 on the customer side of the network termination device 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.

Entry Requirements

Nil.

Packaging Rules

Total number of units = 12

5 core units, plus

7 elective units

The elective units selected may consist of:

- up to 7 units from Group A Cabling
- up to 4 units from Group B Telecommunications
- up to 3 units from Group C General
- 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 Qualification 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 and contribute to a valid, industry-supported vocational outcome. This could be achieved by selecting a specialisation (see below) or by selecting an appropriate mix of electives from Groups A, B and C.

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

ICTTEN202 Use hand and power tools

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

ICTWOR308 Provide customer service to telecommunications customers

Elective units

Group A Cabling

ICTCBL211 Install an above ground equipment enclosure

ICTCBL212 Erect aerial cable supports

ICTCBL248 Install and terminate hard-line coaxial cable

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

ICTPMG201 Prepare site for support installation

Group B Telecommunications

ICTBWN303 Install lead-in module and cable for fibre to the premises

ICTBWN306 Use radio frequency measuring instruments

ICTBWN307 Use optical measuring instruments

ICTCBL303 Install and terminate coaxial cable

ICTCBL320 Jumper metallic conductor cable in the access network

ICTCBL322 Install, test and terminate optical fibre cable on customer premises

ICTCBL329 Install underground cable for communications applications

ICTCBL330 Splice and terminate optical fibre cable for telecommunications projects

ICTCBL333 Install aerial cable for communications applications

ICTCBL334 Install underground enclosures and conduit

ICTTEN210 Install underground telecommunications infrastructure

ICTTEN310 Remove and replace electronic circuit boards in carrier equipment

ICTTEN312 Install telecommunications network equipment

ICTTEN313 Work on and resolve recurrent network faults

ICTTEN318 Inspect, clean and handle optical fibre cable and connectors

Group C General

BSBSUS201 Participate in environmentally sustainable work practices

CPCCCM2007 Use explosive power tools*

CPCCDE3014A Remove non-friable asbestos*

CPCCOHS1001A Work safely in the construction industry

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

CPCPCM2043A Carry out WHS requirements

HLTAID009 Provide cardiopulmonary resuscitation

OR

HLTAID011 Provide first aid

ICTTEN207 Install and test internet protocol devices in convergence networks

ICTWHS201 Provide telecommunications services safely on roofs

ICTWHS205 Work safely near power infrastructure at a telecommunications workplace

OR

UETTDREL14A Working safely near live electrical apparatus as a non-electrical worker

ICTWOR202 Work effectively in the digital and telecommunications industry

RIIWHS204D Work safely at heights

*Note the following prerequisite unit requirements:

| |
|---|
| Prerequisite unit requirements in this qualification |
|---|

| Unit in this qualification | Prerequisite unit |
|---|--|
| CPCCCM2007 Use explosive power tools | CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry |
| CPCCDE3014A Remove non-friable asbestos | CPCCOHS1001A Work safely in the construction industry |

Specialisations

One of the following three specialisations must be undertaken to ensure worker skills meet the required safety practices for each specialisation.

Telecommunications Linesworker Hybrid Fibre Coaxial

Six of the following elective units must be selected:

- ICTBWN306 Use radio frequency measuring instruments
- ICTCBL250 Haul and fix aerial cable
- ICTCBL251 Install aerial and underground cable lead-ins
- ICTCBL252 Joint and terminate coaxial cable
- ICTPMG201 Prepare site for support installation

Plus:

- ICTWHS201 Provide telecommunications services safely on roofs

OR

- RIIWHS204D Work safely at heights

Telecommunications Linesworker Fibre

The following 7 elective units must be selected:

- ICTCBL211 Install an above ground equipment enclosure
- ICTCBL250 Haul and fix aerial cable
- ICTCBL253 Construct underground telecommunications infrastructure
- ICTCBL329 Install underground cable for communications applications
- ICTPMG201 Prepare site for support installation
- ICTTEN310 Remove and replace electronic circuit boards in carrier equipment
- ICTTEN318 Inspect, clean and handle optical fibre cable and connectors

Telecommunications Linesworker Copper

The following 6 elective units must be selected:

- ICTCBL211 Install an above ground equipment enclosure
- ICTCBL250 Haul and fix aerial cable
- ICTCBL253 Construct underground telecommunications infrastructure
- ICTCBL320 Jumper metallic conductor cable in the access network
- ICTCBL329 Install underground cable for communications applications
- ICTPMG201 Prepare site for support installation

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

- ICT20219 Certificate II in Telecommunications Network Build and Operation (Telecommunications Linesworker Hybrid Fibre Coaxial)
- ICT20219 Certificate II in Telecommunications Network Build and Operation (Telecommunications Linesworker Fibre)
- ICT20219 Certificate II in Telecommunications Network Build and Operation (Telecommunications Linesworker Copper)

Qualification Mapping Information

No equivalent qualification. Supersedes and is not equivalent to ICT20215 Certificate II in Telecommunications Network Build and Operate.

Links

Companion Volume Implementation Guides are available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>