Australian Government

ICT20215 Certificate II in Telecommunications Network Build and Operate

Release 3

INDUSTRY
SKILLS
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ICT20215 Certificate II in Telecommunications Network Build and Operate

Modification History

Release	Comments
Release 3	This version released with ICT Information and Communications Technology Training Package Version 3.1. ICTCBL320 and ICTBWN305 added to list of elective units. ICTCBL212 replaced with ICTCBL220 in the Telecommunications Linesworker HFC specialisation stream.
Release 2	This version released with ICT Information and Communications Technology Training Package Version 3.0.
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Qualification Description

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

This qualification provides individuals with the skills and knowledge in a range of NBN industry occupations, specifically for the national rollout of high speed broadband network infrastructure. This may be undertaken as part of a traineeship.

In conjunction with safe working practices, the Telecommunications Linesworker occupational outcome is achieved by selecting one of three specialist technology streams: Fibre or Copper or Hybrid Fibre Coaxial (HFC).

The Linesworker occupation reflects the role of operators who perform cable and infrastructure work underground. This involves safe civil and construction work in site preparation, building of enclosures, installing mounting brackets and hauling of underground cables. It also reflects the role of operators in performing work safely aboveground to install fibre or metallic aerial cable and infrastructure. This may also include installation of 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 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.

Entry Requirements

Nil.

Packaging Rules

Total number of units = 12
5 core units plus
7 elective units

The elective units consist of

- up to 7 from Group A or Group B
- up to 2 may be from elsewhere in this Training Package, another currently endorsed Training Package or any accredited course at AQF level II or III.

Elective units must be relevant to the work environment and the qualification, maintain the integrity of the Australian Qualification Framework (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 both Group A and B.

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.

Core Units
CPCCOHS1001A Work safely in the construction industry
ICTTEN201 Use electrical skills in telecommunications work
ICTTEN202 Use hand and power tools
ICTWHS204 Follow work health and safety and environmental policy and procedures
ICTWOR201 Work effectively in telecommunications technology

Elective Units

Group A
Cabling
ICTBWN303 Install lead-in module and cable for fibre to the premises
ICTBWN305 Use optical and radio frequency measuring instruments
ICTCBL207 Haul underground cable
ICTCBL208 Splice and terminate optical fibre cable for carriers and service providers
ICTCBL209 Joint and terminate coaxial cable
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
ICTCBL220 Install a cable lead-in
ICTCBL302 Install and terminate optical fibre cable on customer premises
ICTCBL303 Install and terminate coaxial cable

ICTCBL307 Install underground enclosures and conduit

ICTCBL308 Install underground cable

ICTCBL310 Install aerial cable

ICTCBL320 Jumper metallic conductor cable in the access network

ICTPMG201 Prepare site for support installation

ICTTEN302 Install telecommunications network equipment

ICTTEN303 Locate, identify and rectify recurrent network faults

ICTTEN310 Remove and replace electronic circuit boards in carrier equipment

ICTTEN311 Inspect, clean and handle optical fibre cable and connectors

Group B
General

BSBSUS201 Participate in environmentally sustainable work practices

CPCCCM2007B* Use explosive power tools

CPCCDE3014A* Remove non-friable asbestos

CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry

CPCPCM2043A Carry out WHS requirements

CPCPCM2055A* Work safely on roofs

HLTAID001 Provide cardiopulmonary resuscitation

HLTAID003 Provide first aid

ICTTEN207 Install and test internet protocol devices in convergence networks

ICTWHS201 Provide telecommunications services safely on roofs

RIIWHS204D Work safely at heights

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.

Minimum elective units required for technology specialisations are described below.

Telecommunications Linesworker Fibre

The following 7 units must be selected:

- ICTCBL211 Install an above ground equipment enclosure
- ICTCBL213 Construct underground telecommunications infrastructure
- ICTCBL214 Fix aerial cable
- ICTCBL207 Haul underground cable
- ICTPMG201 Prepare site for support installation
- ICTTEN310 Remove and replace electronic circuit boards in carrier equipment
- ICTTEN311 Inspect, clean and handle optical fibre cable and connectors.

Telecommunications Linesworker Copper

The following 6 units must be selected:

- ICTCBL211 Install an above ground equipment enclosure

- ICTCBL213 Construct underground telecommunications infrastructure
- ICTCBL214 Fix aerial cable
- ICTCBL207 Haul underground cable
- ICTCBL320 Jumper metallic conductor cable in the access network
- ICTPMG201 Prepare site for support installation.

Telecommunications Linesworker HFC

The following 6 units must be selected:

- ICTCBL209 Joint and terminate coaxial cable
- ICTCBL211 Install an above ground equipment enclosure
- ICTCBL214 Fix aerial cable
- ICTCBL220 Install a cable lead-in
- ICTBWN305 Use optical and radio frequency measuring instruments
- ICTPMG201 Prepare site for support installation

Plus:

- ICTWHS201 Provide telecommunications services safely on roofs

or

- RIIWHS204D Work safely at heights.

*Note the following prerequisite unit requirements:

Unit in this qualification	Prerequisite unit
CPCCCM2007B Use explosive power tools	CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry
CPCCDE3014A Remove non-friable asbestos	CPCCOHS1001A Work safely in the construction industry
CPCPCM2055A Work safely on roofs	CPCPCM2043A Carry out WHS requirements

Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICT20215 Certificate II in Telecommunications Network Build and Operate (Release 2)	ICT20215 Certificate II in Telecommunications Network Build and Operate (Release 1)	Amendments to elective bank groups. Occupational outcomes and specialisations clarified.	Equivalent qualification

Links

Companion volumes are available from the VETNet website - https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2