ICT30313 Certificate III in Telecommunications Cabling

Release 1

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Modification History

Release	Comments
Release 2	This version first released with *ICT10 Integrated Telecommunications Training Package Version 3.0*. Change in WHS core unit. Additional elective units included.
Release 1	This version first released with *ICT10 Integrated Telecommunications Training Package Version 1.0*.

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.

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 units

The following units within this qualification have prerequisites. This is detailed as follows:

Code and title	Prerequisite unit required
ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule	ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule
ICAICT304A Implement system software changes	ICAICT302A Install and optimise operating system software

Pathways Information

Pathways into the qualification

Preferred pathways for candidates considering this qualification include:

- after achieving a Certificate II qualification from this or another accredited Training Package or accredited course

or

- with substantial vocational experience but without a formal qualification.

Pathways from the qualification

After achieving ICT30313 Certificate III in Telecommunications Cabling, candidates seeking to develop more specialised technical skills and knowledge, may select from a range of Certificate IV qualifications in the ICT10 Integrated Telecommunications Training Package.

Licensing/Regulatory Information

The completion of unit ICTWHS2170B and the four unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B and ICTCMP2022B that meets 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 ICT20313 Certificate II in Telecommunications Cabling.

All training programs must be conducted 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	- conveying information to clients, colleagues and other site personnel - completing job reports and compliance forms - interpreting plan as a set of functions to be implemented - confirming approval for time and method of site access with customers - documenting and communicating work-related information, including reporting of faults and problems - providing feedback to customers on operating the equipment
Teamwork	- working with team members to work with clients and install equipment - relating personal role to the industry - participating in a team structure by identifying team members, tasks and goals and recognising and responding positively to conflict - applying interpersonal skills with clients, employer, supervisors, work associates, team members and other contractors - giving and receiving feedback to assist in meeting team and organisational goals
Problem solving	- identifying barriers to installation and developing strategies to overcome them within time and budget restrictions - identifying faults or optimisation options - rectifying faults and adjusting system to optimal operation - determining cable routes taking into account building services, safety, industry codes and practices, and customer requirements - following up promptly on difficulties and known problem areas - ranking likely causes of fault in order of probability to ensure a methodical approach to fault identification
Initiative and enterprise	- identifying barriers to installation and developing strategies to overcome them within time and budget restrictions - adapting plan to suit specific features of site - identifying issues and possible solutions within established guidelines
Planning and organising	- gathering data for the installation of systems and equipment - planning the installation of cable, taking into account technical, scheduling and financial considerations

Employability Skill	Industry/enterprise requirements for this qualification include:
	• interpreting design and relating to site characteristics • prioritising work according to organisation guidelines
Self-management	• developing installation plans to ensure minimal disruption to the workplace • checking that tools and equipment are in safe working order and adjusted to manufacturer specification • applying all related WHS requirements and work practices, including job safety analysis (JSA), protective clothing and personal safety items • relating own role to the industry and establishing own work schedule • using strategies to present a professional image to customers • interpreting and applying relevant regulations and standards
Learning	• making clients aware of opportunities that exist for system upgrades, additional services and training • seeking assistance from team members when necessary • giving and receiving feedback • providing suitable training and assessment opportunities for work team members • providing training to customers on system, product, product features and facilities
Technology	• installing and operating telecommunications equipment and products • installing and operating CPE equipment and products • installing and configuring access network devices • checking tools and test equipment for accuracy • identifying, replacing or repairing faulty parts and equipment

Packaging Rules

Total number of units = 12
6 core units, plus
1 elective units 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 minimum of two of these electives must be taken from Certificate III 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 III or Certificate IV level. One of those two units from Group B general elective units may be substituted from Group A workplace elective units 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

BSBSUS301A Implement and monitor environmentally sustainable work practices
ICTCBL3015A Locate and identify cable system faults
ICTTEN2008A Use electrical skills in telecommunications work
ICTTEN2140B Use hand and power tools
ICTTEN3250A Provide infrastructure for telecommunications customer equipment
ICTWHS2170B Follow work health and safety and environmental policies and procedures

ELECTIVE UNITS

Group A - Workplace elective units

BSBSMB305A Comply with regulatory, taxation and insurance requirements for the micro business
BSBSMB306A Plan a home based business
ICASAS305A Provide IT advice to clients
ICTEDU3053A Train customers in new technology
ICTSMB4160A Set up and operate a contractor business
ICTSMB4161A Operate a contractor business with employees
ICTWOR3028A Organise resources
ICTWOR3035A Organise material supply
ICTWOR3041A Schedule resources
ICTWOR3093A Manage spare parts
ICTWOR3127A Supervise worksite activities
ICTWOR3231A Resolve technical enquiries using multiple information systems
ICTWOR3232A Collect and analyse technical information

Group B - General elective units

Broadband and wireless networks

ICTBWN3082B Perform tests on optical communication system and components
ICTBWN3088B Install optical fibre splitters in fibre distribution hubs
ICTBWN3090B Install lead-in module and cable for fibre to the premises
ICTBWN3100B Work safely with live fibre to test and commission a fibre to the x installation

Cabling

ICTCBL2017B Alter services to existing cable system
ICTCBL2065B Splice and terminate optical fibre cable for carriers and service providers
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
ICTCBL3009B Install, terminate and certify structured cabling installation
ICTCBL3010B Install and terminate optical fibre cable on customer premises
ICTCBL3011B Install and terminate coaxial cable
ICTCBL3013A Perform cable and system test on customer premises
ICTCBL3014A Hand over systems and equipment
ICTCBL3018A Install underground enclosures and conduit
ICTCBL3019A Install underground cable
ICTCBL3020A Construct aerial cable supports
ICTCBL3021A Install aerial cable
ICTCBL3049A Install systems and equipment on customer premises
ICTCBL3052A Cut over new systems and equipment on customer premises
ICTCBL3067A Modify and cut over cable
ICTCBL3069A Install network cable equipment
ICTCBL3103A Maintain cable network

Digital reception technology

ICTDRE3156B Install digital reception equipment
ICTDRE3157B Locate and rectify digital reception equipment faults
ICTDRE3165A Install a complex digital reception system

ICT use

ICAICT302A Install and optimise operating system software
ICAICT303A Connect internal hardware components
ICAICT304A Implement system software changes
ICASAS301A Run standard diagnostic tests
ICASAS303A Care for computer hardware

ICASAS304A Provide basic system administration

Occupational health and safety

CPCCOHS1001A Work safely in the construction industry
ICTOHS2153B Work safely near power infrastructure

Telecommunications engineering networks

ICTTEN2219A Install and test internet protocol devices in convergence networks
ICTTEN3054B Provide infrastructure for telecommunications network equipment
ICTTEN3056A Install telecommunications network equipment
ICTTEN3063A Locate, identify and rectify recurrent network faults
ICTTEN3074A Recover customer premises equipment
ICTTEN3075A Refurbish customer premises equipment
ICTTEN3077B Commission an electronic unit
ICTTEN3104A Maintain an electronic system

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 installer

Core units plus one Group A workplace elective unit plus:

- ICTCBL3020A Construct aerial cable supports
- ICTCBL3021A Install aerial cable
- three additional units from Group B general elective units, with a maximum of one of those additional units from Group A workplace elective units as appropriate to the specific job role

CPE installer

Core units plus one Group A workplace elective unit plus:

- ICTCBL3009B Install, terminate and certify structured cabling installation
- ICTCBL3010B Install and terminate optical fibre cable on customer premises
- ICTCBL3011B Install and terminate coaxial cable
- two additional units from Group B general elective units, with a maximum of one of those additional units from the workplace group as appropriate to the specific job role

Home network installer

Core units plus one workplace unit plus:

- ICTDRE3156B Install digital reception equipment
- ICTDRE3157B Locate and rectify digital reception equipment faults
- ICTDRE3165A Install a complex digital reception system
- two additional units from Group B general elective units, with a maximum of one of those additional units from the workplace group as appropriate to the specific job role

Network cable infrastructure installer

Core units plus one workplace unit plus:

- ICTCBL3009B Install, terminate and certify structured cabling installation
- ICTCBL3011B Install and terminate coaxial cable
- ICTCBL3069A Install network cable equipment
- two additional units from Group B general elective units, with a maximum of one of those additional units from the workplace group as appropriate to the specific job role

Optical broadband network installer

Core units plus one workplace unit plus:

- ICTBWN3082B Perform tests on optical communication system and components
- ICTBWN3088B Install optical fibre splitters in fibre distribution hubs
- ICTBWN3090B Install lead-in module and cable for fibre to the premises
- ICTBWN3100B Work safely with live fibre to test and commission a fibre to the x installation
- one additional unit from Group B general elective units or Group A workplace elective units as appropriate to the specific job role

Technical support

Core units plus one workplace unit plus:

- ICASAS304A Provide basic system administration
- ICASAS305A Provide IT advice to clients
- ICTWOR3231A Resolve technical enquiries using multiple information systems
- ICTWOR3232A Collect and analyse technical information
- one additional unit from Group B general elective units or Group A workplace elective units as appropriate to the specific job role.