



Australian Government

ICT30413 Certificate III in Telecommunications Digital Reception Technology

Release 1

ICT30413 Certificate III in Telecommunications Digital Reception Technology

Modification History

Release	Comments
Release 2	This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 3.0</i>. Change in WHS core unit.
Release 1	This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 1.0</i>.

Description

This qualification reflects the role of an individual in the telecommunications industry who can apply a broad range of competencies in a varied work context of installation of a limited range of digital reception equipment for either a customer or an enterprise. Fault-finding skills on a range of digital reception equipment for Subscription TV and Free-to-air TV reception are acquired.

Any cabling at the customer premises must be carried out in accordance 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.

Job Roles

Job roles and titles vary across different sectors of the industry. Possible job titles relevant to this qualification include:

- audiovisual systems integrator
- field service technician – RF services
- free to air TV installers – multiple services
- subscription TV installer – multiple services.
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Prerequisite units

The following unit within this qualification has a prerequisite. 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

Pathways Information

Pathways into the qualification

Preferred pathways for candidates considering this qualification include:

- after achieving ICT20413 Certificate II in Telecommunications Digital Reception Technology or another relevant accredited Training Package qualification or relevant accredited course

or

- providing evidence of competency in the core units required for ICT20413 Certificate II in Telecommunications Digital Reception Technology or equivalent units with vocational experience

or

- with substantial vocational experience but without a formal qualification.

Pathways from the qualification

After achieving ICT30413 Certificate III in Telecommunications Digital Reception Technology, 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

All training programs must be conducted with the 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).

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	• reading drawings and recognising drawing symbols • 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 correct literature to the customer, including explanatory booklets, manuals, training aids, user guides, equipment plans and configuration • providing feedback to customers on operating the equipment
Teamwork	• 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 faults or optimisation options • rectifying faults and adjusting system to optimal operation • determining cable routes and antenna siting 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	• adapting plan to suit specific features of site • identifying issues and possible solutions within established guidelines • providing customers with temporary or replacement equipment similar to existing equipment
Planning and organising	• interpreting design and relating to site characteristics • planning and organising installation and operation of TV equipment and products • prioritising work according to organisation guidelines
Self-management	• applying all related WHS requirements and work practices,

Employability Skill	Industry/enterprise requirements for this qualification include:
	- 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	• 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 TV equipment and products • installing and configuring passive and active devices • checking tools and test equipment for accuracy • identifying, replacing or repairing faulty parts and equipment

Packaging Rules

Total number of units = 9

4 core units, plus

1 elective unit from Group A workplace units, plus

4 elective units from Group B general units

Units completed in ICT20413 Certificate II in Telecommunications Digital Reception Technology cannot be selected in this qualification.

Elective units must be relevant to the work outcome, local industry requirements and the qualification level. A minimum of 5 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 any accredited course at Certificate III or Certificate IV level. The two units from Group B general elective units may be substituted with 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

ICTDRE3165A Install a complex digital reception system

ICTRFN2163B Install a satellite antenna

ICTRFN2164B Install a terrestrial antenna

ELECTIVE UNITS

Group A - Workplace elective units

BSBSMB305A Comply with regulatory, taxation and insurance requirements for the micro business

BSBSMB401A Establish legal and risk management requirements of small business

BSBSMB405B Monitor and manage small business operations

BSBSMB407A Manage a small team

ICASAS305A Provide IT advice to clients

ICTSMB4161A Operate a contractor business with employees

Group B - General elective units

Cabling

ICTCBL2017B Alter services to existing cable system

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

ICTCBL2163A Install a cable lead-in

ICTCBL3015A Locate and identify cable system faults

Broadband and wireless networks

ICTBWN3082B Perform tests on optical communication system and components

ICTBWN3205B Use optical and radio frequency measuring instruments

Digital reception technology

ICTDRE3156B Install digital reception equipment

ICTDRE3157B Locate and rectify digital reception equipment faults

ICTDRE3248A Design communications wiring systems for customer premises

ICTDRE3249A Develop integrated digital reception systems

ICTDRE4166A Integrate customer digital reception equipment

ICTDRE4167A Integrate data delivery modes

ICTTEN4126A Install and configure internet protocol TV in a home network

ICT use

ICAICT302A Install and optimise operating system software

ICAICT303A Connect internal hardware components

Occupational health and safety

CPCCOHS1001A Work safely in the construction industry

ICTOHS2080A Provide telecommunications services safely on roofs

ICTOHS2153B Work safely near power infrastructure

Radio frequency networks

ICTRFN4095A Conduct radio frequency measurements

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.

Audiovisual systems integrator – includes integration of diverse technologies including RF services, and telephony services in complex equipment systems

Core units plus one Group A workplace elective unit plus:

- ICTDRE3165A Install a complex digital reception system
- ICTDRE4166A Integrate customer digital reception equipment
- ICTDRE4167A Integrate data delivery modes
- two 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

Field service technician – ongoing maintenance of customer equipment

Core units plus one Group A workplace elective unit plus:

- ICTCBL3015A Locate and identify cable system faults
- ICTCBL2017B Alter services to existing cable system
- ICTRFN4095A Conduct radio frequency measurements
- two 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

Home network installer

Core units plus one Group A workplace elective unit plus:

- ICTDRE3156B Install digital reception equipment
- ICTDRE3157B Locate and rectify digital reception equipment faults
- ICTDRE3165A Install a complex digital reception system
- ICTDRE3248A Design communications wiring systems for customer premises
- ICTDRE3249A Develop integrated digital reception systems
- ICTTEN4126A Install and configure internet protocol TV in a home network
- one additional unit from Group B general elective units or from Group A workplace elective units as appropriate to the specific job role

Installer of free-to-air TV

Core units plus one Group A workplace elective unit plus:

- ICTBWN3205B Use optical and radio frequency measuring instruments
- ICTDRE3165A Install a complex digital reception system
- ICTRFN4095A Conduct radio frequency measurements
- two 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

Installer – subscription TV (multiple services) – includes campus installations

Core units plus one Group A workplace elective unit plus:

- ICTDRE3165A Install a complex digital reception system
- ICTDRE4166A Integrate customer digital reception equipment
- 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

Small to medium contracting business operator

Core units plus one Group A workplace elective unit plus:

- ICTSMB4161A Operate a contractor business with employees
- four additional units from Group B general elective units, with a maximum of two of those additional units from Group A workplace elective units as appropriate to the specific job role