ICT30410 Certificate III in Telecommunications Digital Reception Technology

Release: 1

ICT30410 Certificate III in Telecommunications Digital Reception Technology

Modification History

Not Applicable

Description

Descriptor

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 requirements

There are no prerequisite requirements for individual units of competency.

Pathways Information

Qualification Pathways
Pathways into the qualification
Preferred pathways for candidates considering this qualification include:

- after achieving the ICT20410 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 the ICT20410 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 the ICT30410 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

Licensing, legislative, regulatory or certification considerations
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 and Plumbing Services Integrated Framework Training Package fulfils this requirement.

Prerequisite units
The following unit within this qualification has a prerequisite. This is detailed as follows:

Code and Title	Prerequisite unit/s required
ICTCBL2137A Install, maintain and modify customer premises communications cabling: ACMA Open	ICTCBL2136A Install, maintain and modify customer premises communications cabling: ACMA

Rule	Restricted Rule

Entry Requirements

Entry requirements
There are no entry requirements for this qualification.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION 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 organisation 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

Innovation and Business Skills Australia

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
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 OHS 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	• 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

Packaging Rules
Total number of units = **9** **3 core units**, **plus** **1 elective unit from Group A workplace units**, **plus** **5 elective units from Group B general units** Units completed in ICT20410 Certificate II in Telecommunications Digital Reception Technology cannot be selected in this qualification.

Packaging Rules

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
Select the 2 units not completed as Specialist Units in ICT20410 Certificate II in Telecommunications Digital Reception Technology
ICTCBL2162A Install a cable lead-in
ICTRFN2163A Install a satellite antenna
ICTRFN2164A 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
BSBSMB405A Monitor and manage small business operations
BSBSMB407A Manage a small team
ICTSMB4161A Operate a contractor business with employees
ICAS3031B Provide advice to clients

Group B - General elective units

Cabling
ICTCBL2017A Alter services to existing cable system
ICTCBL2136A Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule
ICTCBL2137A Install, maintain and modify customer premises communications cabling: ACMA Open Rule
ICTCBL2139A Apply safe technical work practices for Cabling Registration
ICTCBL3015A Locate and identify cable system faults

Broadband and wireless networks
ICTBWN3082A Perform tests on optical communication system and components
ICTBWN3205A Use optical and radio frequency measuring instruments

Packaging Rules

Digital reception technology
ICTDRE3156A Install digital reception equipment
ICTDRE3157A Locate and rectify digital reception equipment faults
ICTDRE3165A Install a complex digital reception system
ICTDRE4166A Integrate customer digital reception equipment
ICTDRE4167A Integrate data delivery modes
ICTTEN4126A Install and configure internet protocol TV in a home network

ICT use
ICAI3020B Install and optimise operating system software
ICAI3021B Connect internal hardware components

Occupational health and safety
ICTOHS2080A Provide telecommunications services safely on roofs
ICTOHS2153A Work safely near power infrastructure
CPCCOHS1001A Work safely in the construction industry

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
- ICTCBL2017A 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

Packaging Rules

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:

- ICTDRE3156A Install digital reception equipment
- ICTDRE3157A Locate and rectify digital reception equipment faults
- ICTDRE3165A Install a complex digital reception system
- 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:

- ICTBWN3205A 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.