Australian Government

ICT20113 Certificate II in Telecommunications Technology

Release 1

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Modification History

Release	Comments
Release 2	This version first released with *ICA10 Integrated Telecommunications Training Package Version 3.0.* Change in WHS core unit.
Release 1	This version first released with *ICT10 Integrated Telecommunications Training Package Version 1.0.*

Innovation and Business Skills Australia

Description

This qualification has been designed as a pathway for students for entry to the industry.

This qualification provides students with skills and knowledge to enhance their entry-level employment prospects in apprenticeships and traineeships in a range of industries, including telecommunications, information technology and electronics.

Cabling Technician Stream

This qualification reflects the role of operators in the telecommunications industry who apply a broad range of competencies in a varied work context of installation of telecommunications and data cabling and cabling products on customer premises 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.

Digital Reception Stream

This qualification reflects the role of operators in the telecommunications industry who 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. They would perform limited fault finding on a range of digital reception equipment for both cable TV and free to air TV reception.

Networking Stream

This qualification reflects the role of operators in the telecommunications industry who apply a broad range of competencies of converging technologies in a varied work context to install and maintain IP networks with security in the home and small to medium enterprise networks. They would install software, and configure and test emerging technology network elements in IP networks, including secure wireless LANs, servers and routers for enterprise networks.

Job Roles

Job roles and titles vary across different industry sectors. Dependent on the stream completed, possible job titles relevant to a pathway for this qualification include:

- cabler and installer
- data cabler
- equipment installer
- IP-based network installer
- SME business network installer
- subscription TV installer
- telecommunications equipment operator
- TV and digital TV antenna installer.
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Prerequisite requirements

There are no prerequisite requirements for individual units of competency.

Pathways Information

Pathways into the qualification

Candidates may enter this qualification with limited or no vocational experience and without a relevant lower level qualification.

Pathways from the qualification

After achieving ICT20113 Certificate II in Telecommunications Technology, candidates may undertake ICT30213 Certificate III in Telecommunications, a qualification for those seeking to develop more specialised technical skills and knowledge, or a range of other Certificate III qualifications.

Licensing/Regulatory Information

The completion of unit ICTWHS2170B and the four unit set ICTCBL2005B, ICTCBL2006B, ICTCBL2008B and ICTCMP2022B meets the ACMA requirements for Cabling Provider Rules (CPR) restricted registration.

All training programs are undertaken 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	• documenting and communicating work-related information, including reporting of faults and problems
Teamwork	• participating in a team structure by identifying team members, tasks and goals and recognising and responding positively to conflict
Problem solving	• determining cable routes, taking into account building services, safety, industry codes and practices, and customer requirements • determining IP network configurations to suit the SME business requirements • assessing the compatibility and interoperability of proposed network installation to existing network • following up promptly on difficulties and known problem areas
Initiative and enterprise	• reading and understanding plans and designs to acknowledge local physical conditions • identifying issues and possible solutions within established guidelines
Planning and organising	• planning and organising installation and operation of telecommunications equipment and products • planning and setting up the addressing scheme to allow for enterprise network growth
Self-management	• relating own role to the industry and establishing own work schedule • applying all related WHS requirements and work practices
Learning	• seeking assistance from team members • giving and receiving feedback • interpreting technical information from vendor installation instructions
Technology	• configuring, installing and testing IP-based customer telecommunications network equipment • implementing security measures to meet the SME network requirements

Packaging Rules

Total number of units = 11
5 core units, plus
6 elective units from Group A, or
6 elective units from Group B, or
6 elective units from Group C

There is no substitution of elective units.

CORE UNITS

BSBSUS201A Participate in environmentally sustainable work practices
ICTTEN2008A Use electrical skills in telecommunications work
ICTTEN2219A Install and test internet protocol devices in convergence networks
ICTTEN2140B Use hand and power tools
ICTWHS2170B Follow work health and safety and environmental policies and procedures

ELECTIVE UNITS

Group A - Cabling Technician Stream (Restricted Registration)

BSBCUS201B Deliver a service to customers
ICTCBL2005B Install customer cable support systems
ICTCBL2006B Place and secure customer cable
ICTCBL2008B Terminate metallic conductor customer cable
ICTCBL3049A Install systems and equipment on customer premises
ICTCMP2022B Organise and monitor cabling to ensure compliance with regulatory and industry standards

Group B - Digital Reception Stream

ICTCBL2163A Install a cable lead-in
ICTCBL3011B Install and terminate coaxial cable
ICTDRE3156B Install digital reception equipment
ICTDRE3157B Locate and rectify digital reception equipment faults
ICTRFN2163B Install a satellite antenna
ICTRFN2164B Install a terrestrial antenna

Group C - Networking Stream

ICAICT206A Install software applications
ICASAS203A Connect hardware peripherals
ICTTEN2207A Install and configure a home or small office network
ICTTEN2208A Install and configure a small to medium business network
ICTTEN2209A Build and maintain a secure network
ICTTEN2218A Operate new media software packages