



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **ICT20110 Certificate II in Telecommunications Technology**

**Release: 1**

## **ICT20110 Certificate II in Telecommunications Technology**

### **Modification History**

Not Applicable

## Description

### Descriptor

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

### Qualification Pathways

#### 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 the ICT20110 Certificate II in Telecommunications Technology, candidates may undertake the ICT30210 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

### Licensing, legislative, regulatory or certification considerations

The four unit set ICTCBL2005A, ICTCBL2006A, ICTCBL2008A and ICTCMP2022A 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 and Plumbing Services Integrated Framework Training Package fulfils this requirement.

## 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	<ul style="list-style-type: none"> <li>documenting and communicating work-related information, including reporting of faults and problems</li> </ul>

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
Teamwork	<ul style="list-style-type: none"> <li>participating in a team structure by identifying team members, tasks and goals and recognising and responding positively to conflict</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>determining cable routes, taking into account building services, safety, industry codes and practices, and customer requirements</li> <li>determining IP Network configurations to suit the SME business requirements</li> <li>assessing the compatibility and interoperability of proposed network installation to existing network</li> <li>following up promptly on difficulties and known problem areas</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>reading and understanding plans and designs to acknowledge local physical conditions</li> <li>identifying issues and possible solutions within established guidelines</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>planning and organising installation and operation of telecommunications equipment and products</li> <li>planning and setting up the addressing scheme to allow for enterprise network growth</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>relating own role to the industry and establishing own work schedule</li> <li>applying all related OHS requirements and work practices</li> </ul>
Learning	<ul style="list-style-type: none"> <li>seeking assistance from team members</li> <li>giving and receiving feedback</li> <li>interpreting technical information from vendor installation instructions</li> </ul>
Technology	<ul style="list-style-type: none"> <li>configuring, installing and testing IP based customer telecommunications network equipment</li> <li>implementing security measures to meet the SME network requirements</li> </ul>

## Packaging Rules

<b>Packaging Rules</b>
<p><b>Total number of units = 11</b></p> <p><b>5 core units plus</b></p> <p><b>6 elective units from Group A, or</b></p>

**Packaging Rules**

**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

ICTOHS2170A Follow occupational health and safety and environmental policy and procedures

ICTTEN2007A Use electrical skills in telecommunications work

ICTTEN2105A Install and test an internet protocol device in convergence networks

ICTTEN2140A Use hand and power tools

**Group A - Cabling Technician Stream (Restricted Registration)**

ICTCBL2005A Install customer cable support systems

ICTCBL2006A Place and secure customer cable

ICTCBL2008A Terminate metallic conductor customer cable

ICTCMP2022A Organise and monitor cabling to ensure compliance with regulatory and industry standards

BSBCUS201A Deliver a service to customers

ICTDRE3156A Install digital reception equipment

**Group B - Digital Reception Stream**

ICTRFN2163A Install a satellite antenna

ICTRFN2164A Install a terrestrial antenna

ICTCBL2162A Install a cable lead-in

ICTDRE3156A Install digital reception equipment

ICTDRE3157A Locate and rectify digital reception equipment faults

ICTCBL3011A Install and terminate coaxial cable

**Group C - Networking Stream**

ICAI2015B Install software applications

ICAS2014B Connect hardware peripherals

**Packaging Rules**

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