



**Australian Government**

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

# **ICT30510 Certificate III in Telecommunications Rigging Installation**

**Release: 1**

## ICT30510 Certificate III in Telecommunications Rigging Installation

### Modification History

Not Applicable

### Description

#### Descriptor

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 and maintenance of telecommunications equipment mounted on structures requiring rigging skills.

This role includes assessing installation requirements, planning and performing installations, testing installed equipment and fault-finding. It involves a degree of autonomy and may include some supervision of others involving known routines and procedures and some accountability for the quality of outcomes in a specialised area of installation of telecommunication equipment on high structures, including radio towers.

This qualification prepares an individual for entry to the industry into the mainstream of telecommunications convergence technologies of radio, optical, data and internet protocol (IP) networks.

An operator uses rigging skills to install and maintain radio antennas on radio towers and build and mount sections of radio masts for a complete radio structure.

#### Job Roles

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

- installer of telecommunications network equipment on structures
- installer of radio equipment and cabling on radio towers
- maintainer and tester of telecommunications radio network equipment on structures
- telecommunications rigger technician.
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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 ICT20510 Certificate II in Telecommunications Rigging Installation or another relevant accredited Training Package qualification or relevant accredited course

or

- providing evidence of competency in the core units required for the ICT20510 Certificate II in Telecommunications Rigging Installation or equivalent units with vocational experience

or

- with substantial vocational experience but without a formal qualification.

### Pathways from the qualification

After achieving the ICT30510 Certificate III in Telecommunications Rigging Installation, 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

#### *Cabling:*

All training programs must be conducted with the reference to the regulatory regime of the prevailing statutory authority (currently ACMA).

### National Standard for Licensing Persons Performing High Risk Work

The National Standard for Licensing Persons Performing High Risk Work applies to persons performing dogging and rigging work. Completion of the following units is required for certification at either basic, intermediate or advanced levels.

CPCCLDG3001A Licence to perform dogging

CPCCLRG3001A Licence to perform rigging basic level

CPCCLRG3002A Licence to perform rigging intermediate level

CPCCLRG4001A Licence to perform rigging advanced level.

### 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.

### **Prerequisite units**

A number of units within this qualification have prerequisites. These are detailed as follows:

<b>Code and Title</b>	<b>Prerequisite unit/s required</b>
ICTCBL2137A Install, maintain and modify customer premises communications cabling: ACMA Open Rule	ICTCBL2136A Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule
ICTTTCR3062A Build a telecommunications radio structure	ICTTTCR2188A Use rigging practices and systems on telecommunications network structures ICTTTCR2189A Use operational safety in a telecommunications rigging environment ICTTTCR2190A Use safe rigging practices to climb and perform rescues on telecommunications network structures
ICTTTCR3191A Install radio plant and equipment on telecommunications structures	ICTTTCR2188A Use rigging practices and systems on telecommunications network structures ICTTTCR2189A Use operational safety in a telecommunications rigging environment ICTTTCR2190A Use safe rigging practices to climb and perform rescues on telecommunications network structures

## **Entry Requirements**

### **Entry requirements**

There are no entry requirements for this qualification.

## Employability Skills Summary

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
Communication	<ul style="list-style-type: none"> <li>conveying information to clients, colleagues and other site personnel</li> <li>completing job reports and compliance forms</li> <li>communicating with customers to arrange time and access for the installation of systems and equipment</li> <li>documenting and communicating work-related information, including reporting of faults and problems</li> <li>providing feedback to customers on operating the equipment</li> </ul>
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> <li>working with team members to work with clients and install equipment</li> <li>relating personal role to the industry</li> <li>applying interpersonal skills with clients, employer, supervisors, work associates, team members and other contractors</li> <li>giving and receiving feedback to assist in meeting team and organisation goals</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>identifying barriers to installation and developing strategies to overcome them within time and budget restrictions</li> <li>identifying faults or optimisation options</li> <li>rectifying faults and adjusting system to optimal operation</li> <li>determining cable routes taking into account building services, safety, industry codes and practices, and customer requirements</li> <li>following up promptly on difficulties and known problem areas</li> <li>ranking likely causes of fault in order of probability to ensure a methodical approach to fault identification</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>identifying barriers to installation and developing strategies to overcome them within time and budget restrictions</li> <li>adapting plan to suit specific features of site</li> <li>identifying issues and possible solutions within established guidelines</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>gathering data for the installation of systems and equipment</li> <li>developing a plan for the recovery of equipment from customer premises</li> <li>planning the installation of cable, taking into account technical, scheduling and financial considerations</li> </ul>

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
	<ul style="list-style-type: none"> <li>• interpreting design and relating to site characteristics</li> <li>• prioritising work according to organisation guidelines</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>• developing installation plans to ensure minimal disruption to the workplace</li> <li>• checking that tools and equipment are in safe working order and adjusted to manufacturer specification</li> <li>• applying all related OHS requirements and work practices, including job safety analysis (JSA), protective clothing and personal safety items</li> <li>• relating own role to the industry and establishing own work schedule</li> <li>• using strategies to present a professional image to customers</li> <li>• interpreting and applying relevant regulations and standards</li> </ul>
Learning	<ul style="list-style-type: none"> <li>• assessing customer's expertise and training needs and conducting training in the use of systems and equipment</li> <li>• making clients aware of opportunities that exist for system upgrades, additional services and training</li> <li>• seeking assistance from team members when necessary</li> <li>• giving and receiving feedback</li> <li>• providing suitable training and assessment opportunities for work team members</li> <li>• providing training to customers on system, product, product features and facilities</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• installing and operating telecommunications broadband equipment and products</li> <li>• installing and operating CPE equipment and products</li> <li>• installing and configuring access network devices</li> <li>• checking tools and test equipment for accuracy</li> <li>• identifying, replacing or repairing faulty parts and equipment</li> </ul>

## Packaging Rules

<b>Packaging Rules</b>
<p><b>Total number of units = 9</b></p> <p><b>6 core units, plus</b></p> <p><b>1 elective unit from group A workplace units, plus</b></p>

**Packaging Rules****2 elective units from group B general units**

Units completed in ICT20510 Certificate II in Telecommunications Rigging Installation cannot be selected in this qualification.

Elective units must be relevant to the work outcome, local industry requirements and the qualification 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.

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 practises

ICTBWN3205A Use optical and radio frequency measuring instruments

ICTTCR3062A Build a telecommunications radio structure

ICTTCR3191A Install radio plant and equipment on telecommunications structures

ICTTCR3192A Protect against electromagnetic radiation and system hazards when working on telecommunications radio sites

ICTTEN3056A Install telecommunications network equipment

**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

ICAS3031B Provide advice to clients

ICTEDU3053A Train customers

ICTWOR3028A Organise resources

ICTWOR3035A Organise material supply

**Packaging Rules**

ICTWOR3041A Schedule resources

ICTWOR3093A Manage spare parts

ICTWOR3127A Supervise worksite activities

**Group B - General elective units****Cabling**

ICTCBL2017A Alter services to existing cable system

ICTCBL2065A Splice and terminate optical fibre cable for carriers and service providers

ICTCBL2068A Install a telecommunications service to a building

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

ICTCBL3010A Install and terminate optical fibre cable on customer premises

ICTCBL3011A Install and terminate coaxial cable

ICTCBL3013A Perform cable and system test on customer premises

ICTCBL3014A Hand over systems and equipment

ICTCBL3015A Locate and identify cable system faults

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

ICTCBL3069A Install network cable equipment

ICTCBL3103A Maintain cable network

**Occupational health and safety**

ICTOHS2080A Provide telecommunications services safely on roofs

ICTOHS2153A Work safely near power infrastructure

CPCCOHS1001A Work safely in the construction industry

CPCCLDG3001A Licence to perform dogging



**Packaging Rules**

CPCCLRG3001A Licence to perform rigging basic level

CPCCLRG3002A Licence to perform rigging intermediate level

CPCCLRG4001A Licence to perform rigging advanced level

**Radio frequency networks**

ICTRFN3055A Install an radio communications antenna and feedline

ICTRFN3146A Install WiMAX customer premises equipment broadband wireless access equipment

ICTRFN3175A Operate and maintain radio communications technical instruments and field equipment

**Telecommunications engineering networks**

ICTTEN3054A Provide infrastructure for telecommunications network equipment

ICTTEN3063A Locate, identify and rectify recurrent network faults

ICTTEN3077A Commission an electronic unit

ICTTEN3089A Repair and replace telecommunications network hardware

ICTTEN3104A Maintain an electronic system