Australian Government

# ICT30513 Certificate III in Telecommunications Rigging Installation

**Release 2**

ISC INDUSTRY SKILLS COUNCILS
Creating Australia's Future

# ICT30513 Certificate III in Telecommunications Rigging Installation

## Modification History

| Release | Comments |
|---------|----------|
| Release 2 | This version first released with *ICT10 Integrated Telecommunications Training Package Version 3.0*. Units updated to current versions. |
| Release 1 | This qualification first released with *ICT10 Integrated Telecommunications Training Package Version 2.0*. |

# Description

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.

# Pathways Information

**Pathways into the qualification**

Preferred pathways for candidates considering this qualification include:

- after achieving the ICT20513 Certificate II in Telecommunications Rigging Installation or another relevant endorsed Training Package qualification or relevant endorsed course

or

- providing evidence of competency in the core units required for the ICT20513 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 ICT30513 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

## *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
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### 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.

### Volume of learning

The volume of learning of a Certificate III is typically 1-2 years.

Up to 4 years may be required to achieve the learning outcomes through a program of indentured training/employment.

# Entry Requirements

There are no entry requirements for this qualification.

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# Employability Skills Summary

| Employability skill | Industry/enterprise requirements for this qualification include: |
|---|---|
| Communication | • conveying information to clients, colleagues and other site personnel<br>• completing job reports and compliance forms<br>• communicating with customers to arrange time and access for the installation of systems and equipment<br>• documenting and communicating work-related information, including reporting of faults and problems<br>• providing feedback to customers on operating the equipment |
| Teamwork | • participating in a team structure by identifying team members, tasks and goals and recognising and responding positively to conflict<br>• working with team members to work with clients and install equipment<br>• relating personal role to the industry<br>• applying interpersonal skills with clients, employer, supervisors, work associates, team members and other contractors<br>• giving and receiving feedback to assist in meeting team and organisation goals |
| Problem solving | • identifying barriers to installation and developing strategies to overcome them within time and budget restrictions<br>• identifying faults or optimisation options<br>• rectifying faults and adjusting system to optimal operation<br>• determining cable routes taking into account building services, safety, industry codes and practices, and customer requirements<br>• following up promptly on difficulties and known problem areas<br>• ranking likely causes of fault in order of probability to ensure a methodical approach to fault identification |
| Initiative and enterprise | • identifying barriers to installation and developing strategies to overcome them within time and budget restrictions<br>• adapting a plan to suit specific features of site<br>• identifying issues and possible solutions within established guidelines |
| Planning and organising | • gathering data for the installation of systems and equipment<br>• developing a plan for the recovery of equipment from customer premises<br>• planning the installation of cable, taking into account |

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| | | |
|---|---|---|
| | | technical, scheduling and financial considerations |
| | • | interpreting design and relating to site characteristics |
| | • | prioritising work according to organisation guidelines |
| Self-management | • | developing installation plans to ensure minimal disruption to the workplace |
| | • | checking that tools and equipment are in safe working order and adjusted to manufacturer specification |
| | • | 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 | • | assessing customer's expertise and training needs and conducting training in the use of systems and equipment |
| | • | making clients aware of opportunities that exist for system upgrades, additional services and training |
| | • | 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 telecommunications broadband equipment and products |
| | • | installing and operating CPE equipment and products |
| | • | installing and configuring access network devices |
| | • | checking tools and test equipment for accuracy |
| | • | identifying, replacing or repairing faulty parts and equipment |

# Packaging Rules

**Total number of units = 9**
**6 core units**, *plus*
**3 elective units**, *of which*:

- **1 unit must be from Group A Workplace units**
- **2 units must be from Group B General elective units, up to 2 of which** may be substituted with units from elsewhere in this Training Package, another Training Package or accredited course at Certificate II, III or IV level.

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

## Core units

CPCCLDG3001A Licence to perform dogging
CPCCLRG3001A Licence to perform rigging basic level
ICTBWN3205B Use optical and radio frequency measuring instruments
ICTTCR3191A Install radio plant and equipment on telecommunications structures
ICTTCR3192A Protect against electromagnetic radiation and system hazards when working on telecommunications radio sites
ICTWHS2170B Follow work health and safety and environmental policies and procedures

## Elective units

## Group A Workplace

BSBSMB305A Comply with regulatory, taxation and insurance requirements for the micro business
BSBSMB306A Plan a home based business
BSBSUS201A Participate in environmentally sustainable work practices
BSBSUS301A Implement and monitor environmentally sustainable work practices
ICASAS305A Provide IT advice to clients
ICTEDU3053A Train customers in new technology
ICTWOR3028A Organise resources
ICTWOR3035A Organise material supply
ICTWOR3041A Schedule resources
ICTWOR3093A Manage spare parts
ICTWOR3127A Supervise worksite activities

## Group B General elective units

CPCCLRG3002A Licence to perform rigging intermediate level
CPCCLRG4001A Licence to perform rigging advanced level
CPCCOHS1001A Work safely in the construction industry
ICTCBL2017B Alter services to existing cable system
ICTCBL2065B Splice and terminate optical fibre cable for carriers and service providers

ICTCBL2068A Install a telecommunications service to a building

ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule

ICTCBL2137A Install, maintain and modify customer premises communications cabling: ACMA Open Rule

ICTCBL2139B Apply safe technical work practices for cabling registration

ICTCBL3010B Install and terminate optical fibre cable on customer premises

ICTCBL3011B 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

ICTOHS2080A Provide telecommunications services safely on roofs

ICTOHS2153B Work safely near power infrastructure

ICTRFN3055A Install a 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

ICTTCR2188A Use rigging practices and systems on telecommunications network structures

ICTTCR2189A Use operational safety in a telecommunications rigging environment

ICTTCR2190A Use safe rigging practices to climb and perform rescues on telecommunications network structures

ICTTCR3062A Build a telecommunications radio structure

ICTTEN2008A Use electrical skills in telecommunications work

ICTTEN2140B Use hand and power tools

ICTTEN3054B Provide infrastructure for telecommunications network equipment

ICTTEN3056A Install telecommunications network equipment

ICTTEN3063A Locate, identify and rectify recurrent network faults

ICTTEN3077B Commission an electronic unit

ICTTEN3089A Repair and replace telecommunications network hardware

ICTTEN3104A Maintain an electronic system

ICTTEN3250B Provide infrastructure for telecommunications customer equipment

# Prerequisite Units

*The following units in this qualification have the prerequisite units detailed below.*

| Code and title | Prerequisite units required |
|---|---|
| CPCCLRG3002A Licence to perform rigging intermediate level | CPCCLRG3001A Licence to perform rigging basic level |
| CPCCLRG4001A Licence to perform rigging advanced level | CPCCLRG3002A Licence to perform rigging intermediate level |
| ICTCBL2137B Install, maintain and modify customer premises communications cabling: ACMA Open Rule | ICTCBL2136B Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule |
| ICTTCR3062A Build a telecommunications radio structure | ICTTCR2188A Use rigging practices and systems on telecommunications network structures<br><br>ICTTCR2189A Use operational safety in a telecommunications rigging environment<br><br>ICTTCR2190A Use safe rigging practices to climb and perform rescues on telecommunications network structures |
| ICTTCR3191A Install radio plant and equipment on telecommunications structures | ICTTCR2188A Use rigging practices and systems on telecommunications network structures<br><br>ICTTCR2189A Use operational safety in a telecommunications rigging environment<br><br>ICTTCR2190A Use safe rigging practices to climb and perform rescues on telecommunications network structures |