



Australian Government

Department of Education, Employment and Workplace Relations

CUF30207 Certificate III in Broadcast Technology

Revision Number: 1

CUF30207 Certificate III in Broadcast Technology

Modification History

Not applicable.

Description

Descriptor

This qualification reflects the role of a skilled operator in the television or radio broadcasting industries who applies a broad range of competencies in a varied work context, using some discretion and judgement and relevant theoretical knowledge. They may provide technical advice and support to a team.

Job roles

- Assistant broadcast technologist
- Broadcast installer
- Broadcast technical officer.
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Pathways Information

Qualification pathways

Pathways into the qualification

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

Licensing/Regulatory Information

Licensing, legislative, regulatory and certification considerations

Electrical work

In some states and territories of Australia, a restricted electrical licence is required. Restricted electrical licences allow a person to carry out electrical work incidental to a trade. Incidental work may include fault finding on equipment or changing like for like equipment by disconnecting and reconnecting the fixed wiring. It does not include any other changes to the fixed wiring.

First aid

The broadcast industry recommends completion of the St John Ambulance Senior First Aid course.

Open cabling registration

The core units ICTTC136C and ICTTC137C fulfil requirements for Open Cabling Registration by the Australian Communications and Media Authority (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

Sets and staging for some performances or events 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 Integrated Framework Training Package fulfils this requirement.

Information on occupational licensing and its intersection with vocational education and training can be found in Licensing Line News at www.licensinglinenews.com.

Pre-requisite Units

Code and title	Pre-requisite units required
UEENEEH007B Carry out repairs of predictable faults in general electronic apparatus	<ul style="list-style-type: none"> • UEENEEH012B Solve problems in digital components of electronic apparatus • UEENEEH013B Solve problems in amplifier sections of electronic apparatus • UEENEEH038B Find and repair faults in complex power supplies
UEENEEH011B Solve problems in d.c. power supplies with single phase input	<ul style="list-style-type: none"> • UEENEEH002B Carry out basic repairs to electronic apparatus by replacement of components <p>AND</p> <ul style="list-style-type: none"> • UEENEEH014B Solve problems in frequency dependent circuits <p>OR</p> <ul style="list-style-type: none"> • UEENEEG002B Solve problems in single and three phase low voltage circuits <p>OR</p> <ul style="list-style-type: none"> • UEENEEG012B Solve fundamental problems in electrical systems
UEENEEH012B Solve problems in digital components of electronic apparatus	UEENEEH002B Carry out basic repairs to electronic apparatus by replacement of components
UEENEEH017B Carry out repairs of predictable faults in audio and video replay/recording apparatus	<ul style="list-style-type: none"> • UEENEEH012B Solve problems in digital components of electronic apparatus • UEENEEH013B Solve problems in

Code and title	Pre-requisite units required
	amplifier sections of electronic apparatus <ul style="list-style-type: none"> • UEENEEH038B Find and repair faults in complex power supplies
UEENEEH024B Carry out repairs of predictable faults in audio components	<ul style="list-style-type: none"> • UEENEEH012B Solve problems in digital components of electronic apparatus • UEENEEH013B Solve problems in amplifier sections of electronic apparatus • UEENEEH038B Find and repair faults in complex power supplies
UEENEEH027B Commission commercial radio frequency (RF) transmission and reception systems	UEENEEH072B Find and repair faults in the RF sections of electronic apparatus
UEENEEH028B Install microwave and antennae and waveguides	<ul style="list-style-type: none"> • UEENEEE002B Dismantle, assemble and fabricate electro-technology components • UEENEEE005B Fix and secure equipment • UEENEEE007B Use drawings, diagrams, schedules and manuals
UEENEEH039B Solve problems in basic amplifier circuits	<ul style="list-style-type: none"> • UEENEEH002B Carry out basic repairs to electronic apparatus by replacement of components AND <ul style="list-style-type: none"> • UEENEEH014B Solve problems in frequency dependent circuits OR <ul style="list-style-type: none"> • UEENEEG002B Solve problems in single and three phase low voltage circuits
UEENEEH042B Solve problems in oscillator sections of electronic apparatus	<ul style="list-style-type: none"> • UEENEEH014B Solve problems in frequency dependent circuits • UEENEEH039B Solve problems in basic amplifier circuits
UEENEEH076B Diagnose and repair faults in display circuits	UEENEEH071B Find and repair faults in television receivers
ICAS3034B Determine and action	<ul style="list-style-type: none"> • ICAS3024B Provide basic system administration

Code and title	Pre-requisite units required
network problems	<ul style="list-style-type: none">• ICAT3025B Run standard diagnostic tests

Entry Requirements

Not applicable.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the employability skills required by an assistant broadcast technologist based on the units listed above. Using this employability skills summary as an example, trainers and assessors can work out how employability skills would apply to other job roles relevant to the qualification to include important industry application of employability skills in learning and assessment strategies.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> interpreting and clarifying written or verbal instructions interpreting and applying information in user manuals for software applications completing workplace documentation such as maintenance reports discussing equipment fault/problem situations with users to determine what action needs to be taken
Teamwork	<ul style="list-style-type: none"> seeking and responding to feedback on work in progress working collaboratively as a member of a broadcast technology team
Problem-solving	<ul style="list-style-type: none"> identifying and resolving problems associated with installing cabling in buildings finding and repairing faults in electronic apparatus, and audio and video replay/recording devices (including digital components) solving problems in multiple path d.c. circuits and extra-low voltage sing path circuits solving problems in d.c. power supplies with single phase input
Initiative and enterprise	<ul style="list-style-type: none"> optimising operating system and software applications to meet organisational requirements participating in quality improvement activities
Planning and organising	<ul style="list-style-type: none"> planning work tasks in a logical sequence planning and implementing a network addressing system running standard diagnostic tests on IT systems on a regular basis
Self-management	<ul style="list-style-type: none"> acting within the scope of job role following workplace procedures, particularly in relation to OHS and complying with Australian standards in relation to cabling completing maintenance tasks within deadlines seeking expert assistance when problems arise
Learning	<ul style="list-style-type: none"> keeping up to date with industry developments and trends building on existing knowledge to upgrade IT technology skills

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	<ul style="list-style-type: none"> • providing one-to-one instruction to users about changes to operating systems and software applications • identifying and taking advantage of opportunities for ongoing professional development
Technology	<ul style="list-style-type: none"> • using hand and power tools • performing manual soldering/desoldering • using the internet to keep abreast of industry developments and trends • installing operating system software • installing and managing network protocols

Packaging Rules**Packaging Rules****Total number of units = 18****11 core units****7 elective units****4 elective units** must be selected from the list below.

The remaining **3 elective units** may be selected from the remaining elective units listed, any endorsed Training Package or any accredited course at the same qualification level.

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

Core units**Electronics**

UEENEEE003B Solve problems in extra-low voltage single path circuits

UEENEEE004B Solve problems in multiple path d.c. circuits

UEENEEH014B Solve problems in frequency dependent circuits

General maintenance

MEM5001B Perform manual soldering/desoldering - electrical/electronic

Packaging Rules

components

MEM18002B Use power tools/hand held operations

ICT use

ICAT3025B Run standard diagnostic tests

ICAU3019B Migrate to new technology

ICTTC136C Install, maintain and modify customer premises communications cabling: ACA Restricted Rule

ICTTC137C Install, maintain and modify customer premises communications cabling: ACA Open Rule

Industry context

CUFIND301B Work effectively in the screen and media industries

OHS

CUSOHS301A Follow occupational health and safety procedures

Elective units**Broadcasting**

CUFBRD301A Perform basic transmission operations

Construction

CPCCOHS1001A Work safely in the construction industry

Electronics

UEENEEH007B Carry out repairs of predictable faults in general electronic apparatus

UEENEEH011B Solve problems in d.c. power supplies with single phase input

UEENEEH012B Solve problems in digital components of electronic apparatus

UEENEEH013B Solve problems in amplifier sections of electronic apparatus

UEENEEH017B Carry out repairs of predictable faults in audio and video replay/recording apparatus

UEENEEH018B Find and repair faults in electronic apparatus

UEENEEH024B Carry out repairs of predictable faults in audio components

UEENEEH027B Commission commercial radio frequency (RF) transmission and reception systems

UEENEEH028B Install microwave and antennae and waveguides

UEENEEH039B Solve problems in basic amplifier circuits

UEENEEH042B Solve problems in oscillator sections of electronic apparatus

Packaging Rules

UEENEEH076B Diagnose and repair faults in display circuits

First aid

HLTFA301B Apply first aid

ICT building and implementation

ICAI3020B Install and optimise operating system software

ICAI3101B Install and manage network protocols

ICAI3021B Connect internal hardware components

ICT support

ICAS3115B Maintain equipment and software in working order

ICAS3034B Determine and action network problems

Rigging/Dogging

CPCCLRG3001A Licence to perform rigging basic level

CPCCLRG3002A Licence to perform rigging intermediate level

CPCCLRG4001A Licence to perform rigging advanced level

CPCCLDG3001A Licence to perform dogging

Sustainability

BSBSUS201A Participate in environmentally sustainable work practices

Telecommunications

ICTTC008D Terminate metallic conductor cable

ICTTC009D Terminate/splice structured cabling and certify installation

ICTTC011D Place, secure and terminate co-axial cable

ICTTC013D Perform an accurate cable system test

ICTTC066D Joint and terminate co-axial cable

Workplace effectiveness

BSBWOR302A Work effectively as an off-site worker

Selecting electives for different outcomes

The context for this qualification varies, and this must guide the selection of elective units. Examples of appropriate elective units for particular outcomes at this level follow.

Assistant broadcast technologist

Core units plus:

Packaging Rules

- UEENEEH011B Solve problems in d.c. power supplies with single phase input
- UEENEEH012B Solve problems in digital components of electronic apparatus
- UEENEEH017B Carry out repairs of predictable faults in audio and video replay/recording apparatus
- UEENEEH018B Find and repair faults in electronic apparatus
- ICAI3020B Install and optimise operating system software
- ICAI3101B Install and manage network protocols
- ICAS3034B Determine and action network problems

Broadcast installer

Core units plus:

- ICTTC008D Terminate metallic conductor cable
- ICTTC011D Place, secure and terminate co-axial cable
- ICTTC009D Terminate/splice structured cabling and certify installation
- ICTTC066D Joint and terminate co-axial cable
- ICTTC013D Perform an accurate cable system test
- UEENEEH028B Install microwave and antennae and waveguides
- HLTFA301B Apply first aid

Broadcast technical officer

Core units plus:

- UEENEEH011B Solve problems in d.c. power supplies with single phase input
- UEENEEH012B Solve problems in digital components of electronic apparatus
- UEENEEH013B Solve problems in amplifier sections of electronic apparatus
- UEENEEH017B Carry out repairs of predictable faults in audio and video replay/recording apparatus
- UEENEEH018B Find and repair faults in electronic apparatus
- ICAI3021B Connect internal hardware components
- ICAS3115B Maintain equipment and software in working order