CUF50307 Diploma of Broadcast Technology

Revision Number: 1

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Modification History

Not applicable.

     Innovation and Business Skills Australia

Description

Descriptor

This qualification reflects the role of individuals who possess a sound theoretical knowledge base and use a range of specialised, technical or managerial competencies to plan, carry out and evaluate the work of self and/or team in the broadcasting industry.

Job Roles

- Master control operator (technical)
- Specialist technologist
- Technical officer
- Technology project officer.
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Pathways Information

Qualification pathways

Pathways into the qualification

Candidates may enter the qualification with vocational experience and/or qualifications in the fields of IT, electronics or communications engineering.

Licensing/Regulatory Information

Licensing, **legislative**, **regulatory and certification considerations**

There is no direct link between this qualification and licensing, legislative and/or regulatory requirements. However, where required, a unit of competency will specify relevant licensing, legislative and/or regulatory requirements that impact on the unit.

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.

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.

EME hazards

RF workers are required to complete an Electro Magnetic Emissions (EME) Awareness course. In order to attend a site where there is substantial EME hazard (such as a broadcast transmission site) an understanding of the risks of EME and the necessary precautions to mitigate the risks is required.

First aid

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

Pre-requisite Units

Code and title	Pre-requisite units required
CUFBRT501A Collaborate on the design of broadcasting facilities	CUFBRT402A Maintain broadcasting facilities and equipment
UEENEEH080B Diagnose and rectify faults in digital transmission systems	UEENEEH076B Diagnose and rectify faults in display circuits

Entry Requirements

Not applicable.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
The following table contains a summary of the employability skills required by a technology project officer 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	• interpreting information from system drawings, equipment specifications, software and hardware manuals and technical handbooks • completing workplace documentation, e.g. maintenance reports, fault logs and OHS records • liaising effectively with service providers and customers/clients, including ability to communicate technical terminology in plain English • discussing draft designs with others and negotiating changes to incorporate the ideas of others • building trust and respect with clients • negotiating terms and conditions
Teamwork	• working collaboratively on projects, including providing team leadership • seeking and responding to feedback on work in progress
Problem-solving	• diagnosing and repairing faults in broadcast facilities and equipment • recognising and resolving workplace issues when implementing new technology into own professional work practices • taking action to ensure a safe work environment • carrying out measurements and adjustments to optimise performance of equipment • resolving contractual and logistic issues during the course of projects
Initiative and enterprise	• developing ideas and concepts for inclusion in design briefs • generating a range of design solutions that address the requirements of a brief • proactively identifying and developing effective solutions to complex challenges of a varied and unpredictable nature • participating in quality improvement activities • applying new engineering processes to achieve design briefs
Planning and organising	• planning and implementing all stages of projects • planning integration of new technology into own professional

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
	work practices • establishing and managing an OHS system • establishing and maintaining procedures for identifying hazards, and assessing and controlling risks • undertaking research to inform the design process • collating information and coordinating liaison and consultation with others during the design process • developing realistic costings for realisation of design concepts • planning and scheduling work to realise designs within deadlines and budget • organising and allocating resources to realise designs • conducting contracting and procurement activities
Self-management	• working to deadlines • managing work calmly and effectively to achieve goals and results • providing appropriate and timely documentation • ensuring that designs for broadcast facilities comply with all relevant regulations and standards
Learning	• improving own skills and knowledge through experimentation and research • keeping up to date with industry developments and trends • seeking expert advice as required • identifying and taking advantage of opportunities for ongoing professional development • providing OHS induction and training for team members
Technology	• coordinating the installation of new technology • using the internet for research purposes • using routine word processing and database applications in the context of completing workplace documentation • using hand and power tools and test equipment

Packaging Rules

Packaging Rules
Total number of units = **10** **4 core units** **2 Group A units**

Packaging Rules

4 elective units

2 elective units must be selected from the **Group A units** and/or **Group B units** listed below.

The remaining **2 elective units** may be selected from the **Group A** and/or **Group B** units listed any endorsed Training Package or accredited course at the same qualification level.

No more than **3 elective units** previously achieved can be counted towards the qualification.

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

Core units

Industry context

CUFIND301B	Work effectively in the screen and media industries
CUFIND402A	Develop screen and media specialist expertise

OHS

BSBOHS509A	Ensure a safe workplace

Management

BSBPMG510A	Manage projects

Group A units (**specialist**)

Broadcast technology

CUFBRT401A	Install or upgrade broadcast equipment and facilities
CUFBRT402A	Maintain broadcast equipment and facilities
CUFBRT403A	Ensure quality of broadcast output
CUFBRT404A	Coordinate outside broadcasts
CUFBRT501A	Collaborate on the design of broadcasting facilities

Broadcasting

CUFBRD501A	Operate master control

Electronics

Packaging Rules	
UEENEEH048B	Design and develop advanced digital systems
UEENEEH080B	Diagnose and rectify faults in digital transmission systems
Group B units	
Communication	
BSBCMM401A	Make a presentation
Compliance	
BSBCOM501B	Identify and interpret compliance requirements
Construction	
CPCCOHS1001A	Work safely in the construction industry
Creative thinking	
BSBCRT401A	Articulate, present and debate ideas
BSBCRT501A	Originate and develop concepts
Design	
BSBDES401A	Generate design solutions
BSBDES402A	Interpret and respond to a design brief
BSBDES501A	Implement design solutions
BSBDES601A	Manage design realisation
Financial management	
BSBFIM501A	Manage budgets and financial plans
Human resource management	
BSBWOR502A	Ensure team effectiveness
ICT documentation	
ICAD4217B	Create technical documentation
ICAD5092B	Update and document operational procedures
Industry context	
BSBCON401A	Work effectively in a business continuity context
CUFIND401A	Provide services on a freelance basis
Innovation	
BSBINN201A	Contribute to workplace innovation
BSBINN501A	Establish systems that support innovation
BSBINN502A	Build and sustain an innovative work environment

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Packaging Rules

Management

BSBMGT515A	Manage operational plan
BSBRKG502B	Manage and monitor business or records systems
BSBPMG508A	Manage project risk
BSBPMG509A	Manage project procurement

OHS

BSBOHS505B	Manage hazards in the work environment

Research

CUFRES401A	Conduct research

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

BSBSUS301A Implement and monitor environmentally sustainable work practices

Writing

BSBWRT401A	Write complex documents

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.

Technology project officer

Core units plus:

- CUFBRT401A Install or upgrade broadcast equipment and facilities
- CUFBRT501A Collaborate on the design of broadcasting facilities
- BSBDES401A Generate design solutions
- BSBDES402A Interpret and respond to a design brief
- BSBPMG509A Manage project procurement
- BSBDES601A Manage design realisation.

Master control operator (technical)

Packaging Rules

Core units plus:

- CUFBRT403A Ensure quality of broadcast output
- CUFBRD501A Operate master control
- BSBWOR502A Ensure team effectiveness
- ICAD5092B Update and document operational procedures
- BSBINN502A Build and sustain an innovative work environment
- BSBMGT503A Manage operational plan.

Technical officer

Core units plus:

- CUFBRT402A Maintain broadcast equipment and facilities
- CUFBRT403A Ensure quality of broadcast output
- ICAD4217B Create technical documentation
- ICAD5092B Update and document operational procedures
- BSBRKG502B Manage and monitor business or records systems
- BSBCOM501B Identify and interpret compliance requirements.

Specialist technologist

Core units plus:

- CUFBRT402A Maintain broadcast equipment and facilities
- CUFBRT403A Ensure quality of broadcast output
- ICAD4217B Create technical documentation
- ICAD5092B Update and document operational procedures
- BSBRKG502B Manage and monitor business or records systems
- BSBINN502A Build and sustain an innovative work environment.