



Australian Government

CUABRT412 Repair and maintain broadcast equipment and facilities

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 5.0.

Application

This unit describes the skills and knowledge required to diagnose faults and repair broadcasting facilities and equipment in a variety of different environments. This includes documenting and testing repair procedures and ensuring maintenance and support is provided according to organisational standards.

The unit applies to those who work with minimum supervision to repair faults, undertake routine maintenance and provide general technical support, working on single pieces of equipment and whole studios and systems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Media and entertainment production – Broadcast technology

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Locate and repair faults	1.1 Identify and isolate equipment faults using diagnostic techniques and reference material according to organisational standards and safety requirements, obtaining specialist advice where required 1.2 Determine impact of repairs on broadcast operations in consultation with required personnel 1.3 Document maintenance requirements following industry and organisational procedures 1.4 Provide temporary service as required and confirm standards of existing equipment are met 1.5 Carry out equipment repairs within scope of job role or organise

ELEMENT	PERFORMANCE CRITERIA
	repair with specialist services according to organisational procedures 1.6 Test performance of equipment and confirm satisfactory operation
2. Undertake routine maintenance	2.1 Implement equipment upgrades as required and align systems to manufacturer standards and specifications 2.2 Carry out routine alignment and replacement of mechanical parts on broadcast systems 2.3 Advise required personnel if maintenance cannot be completed or faults outside planned maintenance schedule are identified 2.4 Check interconnection between equipment meets organisational standards 2.5 Implement preventative maintenance routines and carry out repairs and alterations as required 2.6 Check, update and maintain system logbooks and fault reports according to organisational procedures 2.7 Monitor system and equipment faults for trends 2.8 Confirm maintenance requirements and procedures are met in consultation with required personnel
3. Provide general technical support	3.1 Assist required personnel with facility-related technical queries 3.2 Communicate standards for use of facilities and equipment with required personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Calculates measurements and adjustments to equipment and settings using mathematical formulae
Oral communication	- Provides information and advice using language suitable to audience - Confirms understanding using listening and questioning techniques
Reading	Interprets textual information and determines and adheres to requirements
Writing	Completes required reports and documentation using clear and technically specific language
Initiative and enterprise	Identifies and resolves problems with maintenance of broadcast equipment and facilities using analytical processes

SKILL	DESCRIPTION
Planning and organising	• Adopts a methodical and logical approach when planning and prioritising required tasks • Minimises disruption to workflow by planning, implementing and monitoring activities
Self-management	• Understands and follows organisational procedures, regulatory requirements and industry standards
Teamwork	• Communicates and collaborates with internal and external personnel using applicable practices and protocols

Unit Mapping Information

Supersedes and is equivalent to CUABRT402 Maintain broadcast equipment and facilities.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1db201d9-4006-4430-839f-382ef6b803d5>

Assessment Requirements for CUABRT412 Repair and maintain broadcast equipment and facilities

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- identify, locate and repair at least two faults on broadcast equipment
- undertake routine maintenance on at least one broadcast facility.

In the course of the above, the candidate must:

- adhere to organisational standards and safety requirements
- refer faults or repairs outside scope of own job role to required personnel
- document maintenance requirements and actions according to industry and organisational procedures
- provide clear information to required personnel about correct usage and maintenance of facilities or equipment.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- features of and operational standards for organisational specific broadcast equipment
- features of common diagnostic test methods and equipment used for identifying and isolating faults and maintaining broadcast equipment
- organisational procedures relating to repairing and maintaining broadcast and equipment facilities, including procedures for documenting maintenance requirements and actions
- industry regulations, standards and certification requirements governing the maintenance of broadcast equipment
- sources of advice, information and specialist technical support for broadcast equipment and facilities
- typical faults that arise in maintaining broadcasting equipment and facilities and procedures to handle them
- procedures for disposing of obsolete equipment
- WHS requirements relating to broadcast equipment and facility maintenance.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- broadcasting equipment and facilities
- drawings, specifications, supplier manuals and other information relevant to broadcast equipment and systems
- industry and regulatory standards.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational educational and training legislation, frameworks and/or standards.

Links

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