



Australian Government

CUASOU404 Manage wireless audio operations

Release: 2

CUASOU404 Manage wireless audio operations

Modification History

Release	Comments
Release 2	This version released with CUA Creative Arts and Culture Training Package version 2.0. Updated assessment conditions section. Updated modification history section to reflect changed name of training package.
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 1.0.

Application

This unit describes the performance outcomes, skills and knowledge required to specify, fit and operate radio microphones and in-ear wireless monitors for performers in the screen, media, entertainment and events industries.

Individuals who apply these skills work autonomously in a team environment as they take responsibility for managing frequency spectrum and overseeing the use of a range of wireless audio equipment during productions. They may also be responsible for supervising others.

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

Unit Sector

Media and entertainment production - audio/sound

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for wireless audio operations	1.1 In consultation with relevant personnel and with reference to production documentation, identify factors that impact on the operation of wireless audio equipment 1.2 Assess both technical and performance factors to establish the most appropriate approach to using wireless audio equipment according to regulatory requirements 1.3 Identify wireless frequencies in use within range, including

	security and building services users 1.4 Identify wireless instrument and in-ear monitor frequencies that could be used by performers and musicians associated with performances 1.5 Plot proposed and currently used frequencies onto suitable plot and compare with legal and available frequencies 1.6 Allocate frequencies to people or departments as required 1.7 Prepare a suitable spreadsheet or plot where multiple use of the same frequency for different performers or segments is required 1.8 Document wireless audio equipment requirements prior to productions to ensure easy interpretation by others 1.9 Ensure availability of equipment and accessories according to production requirements
2. Set up wireless equipment	2.1 Establish suitable location for equipment and technician work area in consultation with relevant personnel 2.2 Run audio lines from wireless equipment to stage box or patch point and make connections according to plot 2.3 Run standby microphone cables as required, and have wired and wireless standby equipment on hand 2.4 Establish backup channels with appropriate personnel, and put in place other appropriate contingency management measures
3. Fit wireless audio equipment	3.1 Make appropriate checks on wireless audio equipment prior to fitting to ensure equipment is correctly labelled, in working order and fully charged 3.2 Check that frequency setting on microphones and transmitters is matched and complete appropriate tuning 3.3 Identify the most appropriate position for equipment based on performance and technical issues 3.4 Use appropriate attachment techniques to fit radio microphones and transmitter packs to performers 3.5 Follow appropriate protocols with performers during the fitting process 3.6 Clearly explain technical operation issues to performers 3.7 Check and adapt gain structure to meet production requirements
4. Monitor wireless audio equipment systems	4.1 Set wireless audio equipment so that signal is received by sound desks 4.2 Ask performers to test equipment to ensure it is working

	correctly, and then crosscheck 4.3 Monitor wireless systems throughout productions, identify problems promptly, and take appropriate action to rectify
5. Complete work operations	5.1 Retrieve wireless equipment from performers at performance end 5.2 Clean and arrange or store wireless equipment in readiness for the next user or performance 5.3 In consultation with relevant personnel, evaluate effectiveness of wireless operations and note areas for future improvement

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1, 1.5	Obtains information from a range of written sources
Writing	1.5, 1.7, 1.8, 5.3	- Prepares and updates workplace documentation - Documents outcomes of evaluations
Oral communication	1.1, 1.2, 1.9, 2.1, 2.4, 3.1, 3.4, 3.5, 3.6, 4.2, 5.1, 5.3	- Obtains information by listening and questioning - Uses clear language to contribute information and express requirements - Discusses ideas and solutions in relation to audio operations
Numeracy	1.3, 1.4, 1.5, 1.6	Allocates frequencies for wireless audio equipment
Navigate the world of work	1.2, 1.8, 3.1, 3.5, 4.3, 5.2, 5.3	- Follows workplace protocols and safety procedures - Meets work deadlines - Demonstrates a commitment to improving own work performance through contributing to evaluations of wireless operations
Interact with others	1.1, 1.2, 1.9, 2.1, 2.4, 3.1, 3.4, 3.5, 3.6,	- Works collaboratively to determine requirements and complete tasks - Respects people's privacy when fitting radio microphones and in-ear wireless monitors

	4.2, 5.1, 5.3	
Get the work done	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 4.1, 4.2, 4.3, 5.1, 5.2	- Adopts a methodical and logical approach to managing wireless audio operations - Assesses information about wireless audio technology and devises the most effective way to meet wireless audio requirements - Plans for contingencies - Recognises and takes responsibility for addressing predictable, and some less predictable, problems that arise in audio operations - Applies knowledge of wireless audio concepts and principles to the set-up and operation of radio microphones and transmitter packs - Uses standard word processing and spreadsheet applications to prepare production documentation

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
CUASOU404 Manage wireless audio operations (Release 2)	CUASOU404 Manage wireless audio operations (Release 1)	Updated assessment conditions section. Updated modification history section to reflect changed name of training package.	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for CUASOU404 Manage wireless audio operations

Modification History

Release	Comments
Release 2	This version released with CUA Creative Arts and Culture Training Package version 2.0. Updated assessment conditions section. Updated modification history section to reflect changed name of training package.
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 1.0.

Performance Evidence

Evidence of the ability to:

- fit wireless equipment to a number of performers in line with production requirements
- apply knowledge of the regulatory and technical issues that affect the use of wireless audio technology to work activities
- determine the best way of using wireless audio technology to meet production requirements
- work collaboratively with performers and others involved in productions.

Note: If a specific volume or frequency is not stated, then evidence must be provided for each of the above points at least once.

Knowledge Evidence

To complete the unit requirements the individual must:

- describe performance factors that impact on the use of wireless audio technology
- explain how to use different types of wireless audio equipment in a range of production contexts
- explain how common frequencies used with wireless audio equipment may be reserved or affected by local television or radio transmitters
- explain the features of a range of antennae
- describe ways in which radio equipment can be fitted to people
- describe protocols for dealing with performers while fitting wireless audio equipment
- explain Australian Communications and Media Authority (ACMA) requirements for allocating frequencies for wireless audio equipment

- explain the frequency spacing required for adjacent wireless channels, and how to establish a number of practical and available channels at a given location
- describe safety requirements for the use of wireless audio equipment
- discuss how to address issues and challenges that typically arise when managing wireless audio operations.

Assessment Conditions

Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance of typical activities experienced in creative arts industry environments. The assessment environment must include access to:

- radio microphones, in-ear monitors, transmitters and receivers
- a venue where a production requiring wireless audio technology can be held.

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

Links

Companion Volume implementation guides are found in VETNet -

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