



Australian Government

CUASOU312 Develop and apply knowledge of audio theory

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 develop and apply knowledge about audio equipment and music technology when recording sound, or mixing live or recorded audio for the music, screen, media and entertainment industries.

The unit applies to those who work in a range of audio and music production environments and use audio equipment and music technology in their work practice.

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

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. Develop knowledge of basic audio theory	1.1 Determine areas for development of basic audio theory relevant to own work practice, in consultation with required personnel 1.2 Identify sources of information relating to basic audio theory 1.3 Access required information and research theoretical concepts using research techniques 1.4 Summarise and discuss research with required personnel
2. Apply basic audio theory	2.1 Evaluate information in the context of own work practice and the work of others 2.2 Assess ways in which different aspects of audio theory may be used and applied 2.3 Apply audio theory knowledge to work activities 2.4 Assess impact to work practices resulting from application of

ELEMENT	PERFORMANCE CRITERIA
	audio theory concepts, consulting with required personnel as required
3. Update and maintain audio theory knowledge	3.1 Develop strategies to review, maintain and expand knowledge of audio theory in consultation with appropriate personnel 3.2 Build networks in relevant audio work practice field and identify industry events to attend 3.3 Research contemporary and historical audio engineers, music producers and repertoire to inform own work and learning 3.4 Seek feedback from required personnel on research and outcomes, and note areas for future improvement

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
Learning	Plans learning strategies to keep up to date with and incorporate industry developments and trends into own audio work practice
Oral communication	- Obtains information by listening and questioning - Uses industry terminology when explaining audio theory concepts
Reading	Interprets information to identify and update knowledge about audio theory
Writing	Documents information gained from research in selected format for personal reference
Planning and organising	Plans and implements tasks required to gather and organise information
Problem solving	Uses methodical and logical approach to researching audio theory
Self-management	Identifies work opportunities and trends within the industry
Technology	Uses digital tools when accessing information

Unit Mapping Information

No equivalent unit. New unit.

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 CUASOU312 Develop and apply knowledge of audio theory

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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:

- apply knowledge of audio theory to at least two different practical tasks related to own work practice.

In the course of the above, the candidate must:

- manage own research and learning
- analyse own knowledge of audio theory and identify areas for improvement
- define theoretical audio concepts required for practical tasks.

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:

- importance of audio theory knowledge to chosen work practice
- theoretical concepts relating to audio, including factors relating to:
 - process of sound propagation
 - process of human hearing and use of decibels as a unit of measurement
 - sound frequencies and dynamic range
 - electricity
 - electromagnetism
 - audio level controls
 - equalizers and process of equalisation
 - compressors and process of audio compression
 - reverb generating devices
 - acoustics
 - digital audio

- research techniques and methods for accessing required sources of information
- strategies to maintain and expand knowledge of audio theory
- processes for identifying development areas of basic audio theory knowledge related to own work practice.

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:

- resource material for researching audio theory concepts
- industry standard software and equipment for research and practical activities
- interaction with others required to demonstrate the performance evidence.

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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