

# CUSSOU403A Perform advanced sound editing

**Revision Number: 2** 



#### **CUSSOU403A Perform advanced sound editing**

#### **Modification History**

Release	Comments
Release 2	Created to fix formatting errors only.
	Released with CUS09 Music Training Package version 1.2

## **Unit Descriptor**

This unit describes the performance outcomes, skills and knowledge required to perform advanced sound editing. This involves assessing the quality of original recorded sound against production requirements, determining the scope of the sound-editing project, preparing source materials for sound editing, editing sound in line with production requirements, and applying sound effects to enhance the final product.

## **Application of the Unit**

This unit applies to sound editors who edit music and sound effects for film, television, interactive media and music productions as well as to technicians who work in film and sound archives.

This work is undertaken with minimal supervision and guidance. Sound editors at this level could also be responsible for supervising others.

This units builds on the skills covered in the imported unit:

CUFSOU204A Perform basic sound editing.

## **Licensing/Regulatory Information**

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

## **Pre-Requisites**

Not applicable

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## **Employability Skills Information**

Not applicable

#### **Elements and Performance Criteria Pre-Content**

Elements describe the
essential outcomes of a
unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

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## **Elements and Performance Criteria**

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for sound editing	1.1 Participate in pre-production meetings with <i>relevant</i> personnel to discuss production requirements and procedures
	1.2 Check that necessary copyright releases have been organised
	1.3 Consider the impact of different <i>release sound formats</i> when planning editing work
	1.4 Check sound <i>equipment</i> to ensure it is operational and appropriate for the task
	1.5 Prepare a team work plan as required and brief relevant personnel accordingly
	1.6 Obtain original <i>sound sources</i> and assess their quality against production requirements
	1.7 Check any <i>documentation</i> in the receipt and preparation of original recordings and copies for <i>productions</i>
	1.8 Advise where sound sources do not meet quality and production requirements and propose options to resolve issues as required
	1.9 Anticipate problems that may arise during the editing process and plan accordingly
2. Edit complex sound sequences	2.1 Check the <i>format</i> of all sound sources, ensuring it is compatible with editing software, equipment and <i>media</i> output
	2.2 Critically listen to sound sources to determine the extent and range of required edits
	2.3 <i>Manipulate editing software</i> and equipment to produce required outcomes and to resolve identified problems
	2.4 Work sensitively and constructively with relevant personnel to achieve best production outcomes
3. Create overall sound context	3.1 Determine the <i>purpose</i> for which sound is being used in productions
Context	3.2 Identify, select and/or <i>produce</i> appropriate sound effects or elements
	3.3 Apply knowledge and understanding of <i>sonic lexicon</i> to enhance final creative outcomes
	3.4 Note sound effects and elements on spotting sheets
	3.5 Incorporate sound effects and elements to meet creative requirements
4. Finalise editing	4.1 Participate in spotting sessions with relevant personnel

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ELEMENT	PERFORMANCE CRITERIA
operations	and make adjustments to mix as required
	4.2 Ensure that final files are in the correct format
	4.3 Manage the quality check of the final sound mix in line with enterprise procedures and production requirements
	4.4 Archive edited audio files and complete associated documentation according to enterprise procedures
	4.5 Ensure that <i>work environment</i> is left clean and ready for the next user
	4.6 In collaboration with support personnel, organise and maintain sound effects libraries for future productions
	4.7 Provide feedback to other team members as required
	4.8 Evaluate own performance against technical and creative criteria and note areas for improvement

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#### Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

#### Required skills

- communication and teamwork skills sufficient to:
  - work collaboratively with project team personnel and sound-production personnel
  - provide feedback to project personnel on appropriate editing techniques
  - provide critical feedback on problems with technical quality of masters and condition of equipment
- literacy skills sufficient to:
  - log and label recorded material
  - accurately note sound effects on spotting sheets
  - read and interpret an edit decision list (EDL)
- numeracy skills sufficient to calculate duration and capacity of media at various speed/sample rates
- initiative and enterprise skills in the context of:
  - finding creative solutions to sound-editing challenges
  - applying critical-listening skills to analyse sound recordings and finding solutions to creative and/or technical problems
- learning skills sufficient to maintain currency of knowledgeof editing software and equipment upgrades
- planning and organisational skills sufficient to:
  - prioritise work tasks
  - meet deadlines
  - locate sound effects
- problem-solving skills sufficient to promptly and effectively rectify sound defects, system failures and mechanical breakdowns
- technology skills sufficient to:
  - use a variety of sound-editing equipment and software on both PC and MAC operating systems
  - manage file systems
  - make regular backups

#### Required knowledge

- principles of sonic storytelling, e.g. using sound (or silence) to:
  - focus attention
  - · intensify action
  - set pace
  - set mood
  - evoke feelings

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- well-developed understanding of psychoacoustic principles, including:
  - spatial hearing
  - · direct sound
  - · early sound
  - · reverberant sound
  - studio and control room design
  - · ergonomics
- well-developed understanding of audio principles, including:
  - frequency
  - pitch
  - amplitude
  - loudness
  - velocity
  - wavelength
  - acoustical phase
  - timbre
  - sound envelope
- intellectual property implications in relation to sound design
- picture and sound synchronisation, including:
  - time codes
  - frame rates
  - sample rates
  - clock leader 2 pips
- principles and techniques of sound editing, including:
  - manipulating sound to achieve technical and creative outcomes
  - using effects to achieve a range of functional sound requirements
  - eliminating audible defects
  - · compatibility of different digital standards
  - identification/logging requirements
  - file formats, technical standards and compression
- issues and challenges that typically arise in the context of performing complex sound edits
- OHS principles of:
  - safe listening, including safeguards against hearing loss
  - using a computer and keyboard for periods of time

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#### **Evidence Guide**

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<ul> <li>Evidence of the ability to:</li> <li>use all features of a range of current industry sound-editing software and equipment</li> <li>make critical editing decisions that enhance the quality and impact of the final sound</li> <li>incorporate a range of sound effects into the final mix</li> <li>work cooperatively in a team environment</li> <li>meet deadlines.</li> </ul>
Context of and specific resources for assessment	Assessment must ensure:  • access to current industry-standard equipment as listed in the range statement  • use of culturally appropriate processes, and techniques appropriate to the language and literacy capacity of learners and the work being performed.
Method of assessment	<ul> <li>The following assessment methods are appropriate for this unit:</li> <li>observation of candidate undertaking complex sound edits, including the incorporation of sound effects</li> <li>direct questioning combined with review of portfolios of evidence and third-party workplace reports of on-the-job performance by candidate</li> <li>authenticated recordings of material edited by the candidate</li> <li>case studies and scenarios as a basis for discussing issues and challenges that arise in the context of complex sound editing.</li> </ul>
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:  • CUSSOU404A Edit dialogues.

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### **Range Statement**

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

<b>Relevant personnel</b> may include:	• performer
	• composer
	sound supervisor
	supervising sound editor
	preservation supervisor
	• archivist
	effects editor
	effects mixer
	sound mixer
	• recordist
	re-recording mixer
	audio assistant
	audio and sound engineer
	• director
	• producer
	post-production picture editor
	post-production manager
	program manager
	sound designer.
Production requirements and	• creative
procedures may include:	technical
	file formats
	agreement on file naming structures
	work flow after capture
	prerelease screenings to check quality of sound mix
	technical checks
	• spotting sessions
	• attributions
	audience
	• budget
	confidentiality
	• content
	contractual arrangements

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	<ul> <li>copyright</li> </ul>
	• deadlines
	<ul> <li>direct quotes</li> </ul>
	• duration
	<ul> <li>intellectual property</li> </ul>
	<ul> <li>interviews</li> </ul>
	• location
	• purpose
	• schedule
	• style.
Release sound formats may	IMAX multichannel system
include:	• 5.1 surround sound:
	• cinema
	<ul> <li>television</li> </ul>
	4-track Dolby stereo
	• 2-track stereo
	• internet
	• games
	• radio.
Equipment may include:	• digital audio workstation (DAW) with software, such as:
	• Pro Tools
	N
	• Pyramix
	• Fairlight
	Sound Forge
	Adobe Audition
	Final Cut Pro
	• Avid
	• EDL software
	<ul> <li>mixing consoles</li> </ul>
	• outboard gear, such as:
	<ul> <li>re-verb unit</li> </ul>
	<ul> <li>sub-base harmoniser</li> </ul>
	• de-esser
	• compressor.
Sound sources may include:	dialogues and voice-overs     appoint affects.
	• special effects
	• music
	• walla

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	1 1 1
	ambient sound
	atmospheric sound
	• foley.
<b>Documentation</b> may include:	• pre-mix scripts
Ž	<ul> <li>mixing sheets</li> </ul>
	<ul> <li>track sheets</li> </ul>
	de-noising documents
	• cue sheets
	<ul> <li>dubbing sheets</li> </ul>
	• queries
	• notes
	• manuals.
<b>Production</b> may include:	• commercial
170menon may merade.	<ul> <li>print advertisement</li> </ul>
	corporate video
	• feature film and/or video
	filmed event and/or performance
	interactive media product
	• internet production
	electronic game production
	music recording and/or video
	promotional trailer
	radio broadcast
	short film and/or video
	television program
	<ul> <li>training film and/or video</li> </ul>
	• oral histories
	• voice-over.
F	audio/sound, such as:
Format may include:	• DAT
	• AIF (AIFF)
	• WAV
	broadcast WAV format (BWF)  WAV
	• WMA
	I MIDI
	• MIDI
	• OGG
	• OGG
	<ul><li>OGG</li><li>advanced audio coding (AAC)</li></ul>
	<ul><li>OGG</li><li>advanced audio coding (AAC)</li><li>Apple Lossless</li></ul>

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	• MP3
	• computerised data.
	4! -
Media may include:	• radio • video
	• Video • CD
	• DVD
	• DAT
	<ul><li>DAT</li><li>computer hard drive</li></ul>
	· · · · · · · · · · · · · · · · · · ·
	<ul><li>internet</li><li>mobile device</li></ul>
	• film.
Manipulating editing software	adjusting and normalising audio levels
may include:	• inserting:
	• transitions
	sound effects
	• music
	voice-overs
	• overlays
	• manipulating audio clips, such as:
	• cutting
	<ul> <li>pasting</li> </ul>
	• copying
	<ul> <li>moving</li> </ul>
	• splitting.
Purpose may include:	breaking the screen plane
1 w pose may merade.	defining space
	• focusing attention
	establishing locale
	creating environment
	emphasising action
	intensifying action
	depicting identity
	setting pace
	providing counterpoint
	creating humour
	symbolising meaning
	creating metaphor
	unifying transition
	creating silence.
<b>Producing</b> sound effects may	creating and synchronising effects in a post-production studio

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involve:	<ul> <li>recording during shooting</li> </ul>
	• collecting in the field
	• generating effects electronically.
Sonic lexicon may refer to	• silent film
genres, such as:	<ul> <li>natural history</li> </ul>
	drama productions
	<ul> <li>animation</li> </ul>
	• comedy
	• horror.
Work environment may include:	dubbing theatre
and the second second	• on location, including interior and exterior
	<ul> <li>outside broadcast</li> </ul>
	<ul> <li>post-production studio</li> </ul>
	<ul> <li>recording studio</li> </ul>
	• sound stage
	<ul> <li>cultural institution</li> </ul>
	• archive.

# **Unit Sector(s)**

Media and entertainment production - audio/sound

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