



Australian Government

ICPDMT344 Manipulate and incorporate audio into multimedia presentations

Release: 1

ICPDMT344 Manipulate and incorporate audio into multimedia presentations

Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to edit, combine and incorporate audio into multimedia presentations.

It applies to individuals who determine audio requirements from job specifications and use digital software to prepare audio tracks.

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

Unit Sector

Digital media technologies

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 Identify and describe formats of digital audio	1.1 Distinguishing features and uses of analogue and digital audio are determined 1.2 Terms describing audio characteristics are used correctly 1.3 Contemporary digital audio formats and their application in achieving defined outcomes are identified 1.4 Data rates for major digital sources and their relevance to defined outcomes are determined 1.5 Appropriate methods for saving and producing digital audio outputs are determined for range of sources and destinations 1.6 Sampling techniques and sources for digital audio appropriate to

ELEMENT	PERFORMANCE CRITERIA
	defined outcomes are determined 1.7 Uses of Musical Instrument Digital Interface (MIDI) technology are determined
2 Use digital audio software	2.1 Appropriate digital audio software is assessed and selected for job 2.2 Programs are used to edit and manipulate audio according to job specifications
3 Edit digital audio	3.1 Single and multiple audio tracks are edited to achieve defined outcome 3.2 Multiple tracks of digital audio are joined according to job specifications 3.3 Digital effects are employed to modify and integrate digital audio tracks according to job specifications 3.4 Time encoding is applied to single and multiple edited digital audio tracks according to job specifications 3.5 Audio track is inserted into multimedia production sequence according to job specifications
4 Construct digital audio track	4.1 Techniques for hooking sounds are identified 4.2 Defects on sound recordings are eliminated and/or treated 4.3 Special effects and mixing techniques are used on audio track according to job specifications 4.4 Sequencers are used to create digital audio tracks according to job specifications 4.5 MIDI and sound cards are used to create digital audio according to job specifications 4.6 Audio track is produced using appropriate track construction software and hardware 4.7 Audio tracks are saved in appropriate file formats

Foundation Skills

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

Skill	Performance	Description
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	Criteria	
Reading	1.1, 1.3, 1.4, 1.6, 2.1, 2.2, 3.2-3.5, 4.3-4.5	Interprets textual information to establish audio format and software requirements
Oral Communication	1.2, 4.2, 4.3	- Uses clear technical terminology to describe audio characteristics - Uses listening techniques to identify audio issues
Numeracy	1.4, 3.4	Recognises numerical data to identify digital audio formats and apply time encoding and data rates
Get the work done	1.1, 1.3, 1.5-1.7, 2.1, 2.2, 3.1-3.5, 4.1-4.7	- Plans and implements tasks required to complete jobs according to specifications - Assesses alternatives and makes routine decisions directly related to own role - Identifies and rectifies defects in sound recordings - Understands the purposes, functions and features of digital systems and tools used for sound recording and editing, and uses them effectively to complete tasks

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPDMT344 Manipulate and incorporate audio into multimedia presentations	ICPMM344C Manipulate and incorporate audio into multimedia presentations	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>

Assessment Requirements for ICPDMT344 Manipulate and incorporate audio into multimedia presentations

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Performance Evidence

Evidence of the ability to:

- construct, edit and incorporate audio elements into at least TWO different multimedia sequences including:
 - finding and using information relevant to the task from a variety of sources
 - interpreting requirements from job specifications
 - selecting and using suitable software and hardware.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- identify the distinguishing features of analogue and digital audio
- explain the terms: amplitude, sound waves, frequency, mono and stereo
- identify the main contemporary digital audio formats
- describe data rates that apply to selected digital sources
- identify sampling, sampling techniques and sources for sampling digital audio
- explain the different uses of Musical Instrument Digital Interface (MIDI) technology
- identify the distinguishing features of selected digital audio software
- explain the purpose of an audio frame when saving and producing digital audio outputs
- explain the process to join multiple tracks of digital audio
- identify the types of digital effects that are used to modify and integrate digital audio tracks
- explain the purpose of time encoding
- clarify how sequencers are used to create digital audio tracks
- explain the purposes of sound cards.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the digital media technologies field of work and include access to software, hardware and equipment and materials required for construction and editing of sound files.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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