



Australian Government

ICPDMT3440 Manipulate and incorporate audio into multimedia presentations

Release: 1

ICPDMT3440 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 4.0.

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. Prepare to edit digital audio	1.1 Identify job specifications and audio requirements 1.2 Identify and prepare required audio files for editing 1.3 Identify methods for saving and producing digital audio outputs 1.4 Select sampling techniques for digital audio
2. Edit digital audio	2.1 Select digital audio software according to job specifications 2.2 Edit and manipulate audio using selected software 2.3 Edit single and multiple audio tracks 2.4 Join multiple tracks of digital audio 2.5 Use digital effects to modify and integrate digital audio tracks 2.6 Apply time encoding to single and multiple edited digital audio tracks

ELEMENT	PERFORMANCE CRITERIA
	2.7 Insert audio track into multimedia production sequence according to job specifications
3. Construct digital audio track	3.1 Treat defects on sound recordings 3.2 Use special effects and mixing techniques on audio track according to job specifications 3.3 Use sequencers to create digital audio tracks 3.4 Use Musical Instrument Digital Interface (MIDI) and sound cards to create digital audio 3.5 Produce audio track using required track construction software and hardware 3.6 Save audio tracks in required file formats

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
Reading	Evaluates textual information to establish audio format and software requirements
Oral Communication	Uses clear technical terminology to describe audio characteristics
Numeracy	Identifies numerical data to identify digital audio formats and apply time encoding and data rates
Planning and Organising	- Plans and implements tasks required to complete jobs according to specifications - Assesses alternatives and makes routine decisions directly related to own role
Problem Solving	Uses listening techniques to identify audio issues
Technology	- Identifies and rectifies defects in sound recordings - Identifies the purposes, functions and features of digital systems and tools used for sound recording and editing, and uses them to complete tasks

Unit Mapping Information

Supersedes and is equivalent to ICPDMT344 Manipulate and incorporate audio into multimedia presentations.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICPDMT3440 Manipulate and incorporate audio into multimedia presentations

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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 the unit, including evidence of the ability to:

- construct, edit and incorporate audio elements into at least two different multimedia sequences.

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:

- distinguishing features of analogue and digital audio
- meaning of amplitude, sound waves, frequency, mono and stereo
- features of digital audio formats currently used by industry
- data rates that apply to digital sources
- sampling techniques and sources for sampling digital audio
- uses of Musical Instrument Digital Interface (MIDI) technology
- features of selected digital audio software
- purpose of an audio frame in saving and producing digital audio outputs
- process to join multiple tracks of digital audio
- types of digital effects used to modify and integrate digital audio tracks
- techniques for hooking sounds together
- purpose of time encoding
- use of sequencers in creating digital audio tracks
- purposes of sound cards.

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. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the area of work.

This includes access to:

- audio-editing software
- multimedia output devices.

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

Links

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