

Title	Demonstrate and apply knowledge of sound technology for a performance context		
Level	1	Credits	4

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the purpose of sound technology for performance contexts; demonstrate knowledge of sound technology equipment used in performance; and set up and operate sound technology equipment to meet the requirements of a specified performance context.
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Classification	Performing Arts General > Entertainment and Event Technology
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Available grade	Achieved, Merit, and Excellence
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Criteria for Merit	Candidates must be able to demonstrate integration of knowledge between the purpose of sound, the equipment and its features, functions, specifications and operation. The candidate requires minimal prompting in using terminology and technical language to justify the selection of equipment and to describe its suitability for the requirements of a specified performance context. The set-up and operation of the sound technology equipment is completed with some reference to the specified guidelines. Technical issues during the performance are corrected without prompt.
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Criteria for Excellence	Candidates must be able to demonstrate integration of knowledge between the purpose of sound, the equipment and its features, functions, specifications and operation. The candidate must confidently and accurately use a range of terminology and technical language to justify the selection of equipment and to describe its suitability for enhancing the requirements of a specified performance context. The set-up and operation of the sound technology equipment is completed without reference to the specified guidelines and in a manner that ensures no technical issues arise during the performance.
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Guidance Information

- 1 This unit standard can be awarded with *Credit (Achieved)*, *Merit* or *Excellence*. For award with *Credit (Achieved)*, all outcomes must be achieved as specified in the

outcome statements. For *Merit* or *Excellence* to be awarded, the candidate must meet the *Merit* or *Excellence* criteria specified above.

2 Definitions

Recording device means a piece of equipment able to record and store sound. This includes either analogue or digital devices.

Specified guidelines means a set of guidelines specifying how equipment must be rigged (positioned, secured, connected), labelled, operated and packed down. Candidates must be supplied with the guidelines prior to the assessment.

Technical requirements of the context means the techniques used to achieve the optimum fidelity for the context. This may include but is not limited to – placement and connection of equipment, use of settings on equipment to achieve unity gain or avoid feedback, pop or sibilance.

3 Candidates must be given access to sound equipment that has been certified as safe in order to complete assessment against this unit standard. The assessor must ensure that the power supply used in practical activities has sufficient capacity for the connected equipment. Equipment must be checked and verified by the assessor as being connected correctly prior to power up.

4 Candidates being assessed against this unit standard must demonstrate safe working practices at all times. These may include but are not limited to safe working practices in situations involving – working at heights, working with electricity, using certified equipment, lifting, securing equipment safely, replacing and storing equipment, use of tools, use of supplied safety equipment, following manufacturer's instructions. Evidence of this can be provided by a teacher/tutor attestation or candidate's reflective statement. A useful reference for safe working practice is the Entertainment Technology New Zealand publication *A Guide for Safe Working Practices in the New Zealand Theatre and Entertainment Industry*, 2011, which can be accessed at <http://www.etnz.org>.

5 Legislation

Health and Safety at Work Act 2015, and its subsequent amendments.

6 Range

Performance context may include but is not limited to – a live performance situation requiring sound reinforcement; a studio recording situation; a location recording situation which may include such scenarios as theatre, dance, kapa haka, music performance, performance art, fashion show or moving image production. The context the candidate is being assessed in must be specified by the teacher/tutor.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the purpose of sound technology for performance contexts.

Performance criteria

1.1 Purpose of sound technology is described in terms of its use(s) in performance contexts.

Range use(s) may include but are not limited to – reinforce performance, enhance visual elements of a performance, reproduce a performance;
purpose of sound for a minimum of two different contexts.

Outcome 2

Demonstrate knowledge of sound technology equipment used in performance.

Range equipment includes but is not limited to – microphones, mixer, amplifier(s), speakers, recording device.

Performance criteria

2.1 Equipment is identified and selected for a performance in terms of its suitability for the performance context.

Range suitability includes but is not limited to – source(s) of sound, equipment specifications, location of performance.

2.2 Equipment is described in terms of its features and its functions, specifications and operation of the features.

Range specifications include but are not limited to – polar patterns, frequency response, dynamic range, impedance, power rating, Sound Pressure Level.

2.3 Sound technology equipment accessories are identified and described according to their purpose and use.

Range includes but is not limited to – microphone stand(s), cables, pop filters and/or windscreens, direct injection units, headphones.

Outcome 3

Set up and operate sound technology equipment to meet the requirements of a specified performance context.

Performance criteria

3.1 Equipment is rigged, labelled and operated according to specified guidelines, technical requirements of the context and safe working practices.

3.2 Input levels are set to meet the technical requirements of the equipment.

- 3.3 Sound sources are balanced in level to meet the artistic requirements of the specified performance context.

Range channels, master, overall volume.

- 3.4 Sound sources are manipulated in preparation for and during the performance to meet the technical and artistic requirements of the specified performance context.

Range includes but is not limited to – manipulation of tone (eq), manipulation of stereo field (pan), manipulation of levels (use of mutes and/or fades).

Planned review date	31 December 2019
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 November 2010	N/A
Revision	2	17 July 2014	N/A
Rollover	3	16 July 2015	N/A
Rollover and Revision	4	26 October 2017	N/A

Consent and Moderation Requirements (CMR) reference	0099
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Skills Active Aotearoa Limited info@skillsactive.org.nz if you wish to suggest changes to the content of this unit standard.