<table>
<thead>
<tr>
<th>Title</th>
<th>Demonstrate and apply knowledge of sound technology for a performance context</th>
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<tbody>
<tr>
<td>Level</td>
<td>1</td>
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<td>Credits</td>
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**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.

**Classification**

Performing Arts General > Performing Arts Technology

**Available grade**

Achieved, Merit, and Excellence

**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.

**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.

**Explanatory notes**

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](http://www.etnz.org).

5 Legislation


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.

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**Outcomes and evidence requirements**

**Outcome 1**

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

**Evidence requirements**

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.

Evidence requirements

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.

Evidence requirements

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).

<table>
<thead>
<tr>
<th>Planned review date</th>
<th>31 December 2020</th>
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Status information and last date for assessment for superseded versions

<table>
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<tr>
<th>Process</th>
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<tr>
<td>Registration</td>
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Consent and Moderation Requirements (CMR) reference 0226


Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact NZQA National Qualifications Services nqs@nzqa.govt.nz if you wish to suggest changes to the content of this unit standard.