

Title	Demonstrate knowledge of hearing conservation in the workplace		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to demonstrate knowledge of: the mechanism of hearing, and the causes of hearing impairment; how sound intensity is measured, the hearing comfort zone, and the effects of noise on the hearing mechanism; types of, and the benefits of using, hearing protection equipment; and workplace hearing protection programme requirements.
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Classification	Occupational Health and Safety > Occupational Health and Safety Practice
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Available grade	Achieved
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Explanatory notes

Definitions

Organisational requirements refer to instructions to staff on policy and procedures, which are documented in memo or manual format and are available in the workplace. These requirements may include but are not limited to – site specific requirements, company quality management requirements, Approved Codes of Practice and guidelines, and legislative requirements.

Legislative requirements include but are not limited to compliance with – Health and Safety in Employment (HSE) Act 1992 and Health and Safety in Employment (HSE) Regulations 1995; Resource Management Act 1991; local body regulations; Approved Codes of Practice created under the primary Act or related guidelines.

Hearing comfort zone refers to acceptable noise level for prolonged exposure.

Types of hearing impairment refer to temporary and/or permanent threshold shift.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of the mechanism of hearing, and the causes of hearing impairment.

Evidence requirements

1.1 The hearing mechanism is explained in terms of function and structure.

Range includes but is not limited to – the outer ear as a sound receiver, the middle ear (eardrum), the inner ear membranes, hair cells.

1.2 The causes of hearing impairment are explained in terms of their physiological basis.

Range includes but is not limited to – degenerative (age), infection, head injury, excessive noise.

Outcome 2

Demonstrate knowledge of how sound intensity is measured, the hearing comfort zone, and the effects of noise on the hearing mechanism.

Evidence requirements

2.1 The measurement of sound intensity is explained in terms of the decibel as a unit of sound, the decibel scale, and the logarithmic nature of the decibel scale.

2.2 The hearing comfort zone is explained in terms of noise source and level.

Range includes but is not limited to – common sources of noise, comparative levels recommended, maximum sound level for prolonged exposure.

2.3 The effects of noise on the hearing mechanism are explained according to the type of hearing loss.

Range includes but is not limited to – temporary loss due to single loud exposure, permanent loss due to prolonged noise exposure.

Outcome 3

Demonstrate knowledge of types of, and the benefits of using, hearing protection equipment.

Evidence requirements

3.1 The benefits of using hearing protection are explained in terms of prevention, and the effects of hearing loss.

Range prevention includes but is not limited to – prevent permanent impairment, prevent further impairment where hearing loss has already occurred, prevent temporary impairment, prevent foreign matter entering the ears;
effects include but are not limited to – job related stress, social isolation due to deafness.

3.2 The uses of common types of hearing protection equipment are explained according to manufacturer's recommendations.

Range includes but is not limited to – disposable ear plugs, canal caps with headband, ear muffs.

Outcome 4

Demonstrate knowledge of workplace hearing protection programme requirements.

Evidence requirements

4.1 Audiometric testing is explained in terms of health and safety legislative requirements.

Range includes but is not limited to – establishment of baseline reference test, notification of threshold shift exceeding 10 decibels, requirement for annual tests, audiometric records available to current and former employees upon request.

4.2 The requirement to advise employees and the public of the need for hearing protection in hazardous areas is explained in terms of the health and safety legislative requirements.

Range includes but is not limited to – the use of signs in high-risk areas, provision of guidelines on exposure levels and equipment.

4.3 The requirement for the provision of hearing protection and workplace training programmes is outlined in terms of the health and safety legislative requirements.

Range includes but is not limited to – thresholds for use of hearing protection, upper noise level 85 decibels, time-weighted average exposure basis over an eight hour period.

Planned review date	31 December 2015
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	14 December 2000	N/A
Revision	2	16 May 2005	N/A
Review	3	25 May 2007	N/A
Rollover and Revision	4	22 May 2014	N/A

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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 The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.