



REPORTED OCCUPATIONAL DISEASES AND POISONING 2017

Type of diseases	Reported cases
Occupational Lung Diseases (OLD)	102
Occupational Skin Diseases (OSD)	117
Occupational Noise Related Hearing Disorders (ONRHD)	4787
Occupational Muscular - Skeletal Disorders (OMSD)	801
Occupational Poisoning	105
Disease cause byPhysical Agent	23
Disease cause by Biological Agent	32
Occupational Cancer	6
Psychosocial Problem	10
Other Types of Occupational Diseases	6
Non Occupational Diseases	31
Total	6020













OBJECTIVE

At the end of this session, participant will be able to :

- Differentiate between sound & noise
- Understand minimum requirement of legislation in Malaysia
- Understand responsibilities of employer & employees









SIGNS OF HEARING LOSS

- ➤ Difficulty hearing people speak.
- ➤ Inability to hear certain high-pitched or soft sounds.
- ➤ Noise or ringing in ears.
- ➤ Getting complaints that the radio or television is too loud.
- Trouble understanding conversation at a distance or in a crowd
- ➤ Others can hear something you can't

FACTORIES AND MACHINERY (NOISE EXPOSURE) REGULATIONS 1989

- Applied to all FACTORIES in which persons are employed involving exposure to excessive noise
- Noise Monitoring:
 - Initial Monitoring
 - Positive Monitoring
 - Additional Monitoring

OCCUPATIONAL SAFETY & HEALTH ACT (NOISE EXPOSURE) REGULATION 2019

- - Noise Risk Assessment



OCCUPATIONAL SAFETY & HEALTH (NOISE EXPOSURE) REGULATIONS 2019



1 Mac 2019



Revocation of Noise Regulations 1989



Noise Regulation 2019

-Operation 1 Jun 2019

- -Noise Monitoring Valid 1 year
- -Engineering and administrative, audiometric testing valid for reference and record
- Baseline audiometric carry out within 30days
- -Record kept an maintained
- -training programme
- -I jun 2020



5 August2019



Noise Exposure and Hearing
Conservation 2019

- Approved 26 Jun 2019



Publish website DOSH

-20 August 2019



HEARING CONSERVATION PROGRAMME (HCP)

Noise risk assessment

Noise control measures

Audiometric testing

Information, instruction and training

Recordkeeping

Identify workers exposed to hazardous noise

Engineering Control

Conducted annually for all workers exposed to NEL



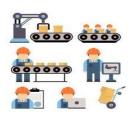
All employees shall be provided with information and training about the importance of protecting their

hearing

Establish proper recordkeeping to document HCPactivities



Identify noisy areas



Administrative Control



Personal hearing protectors

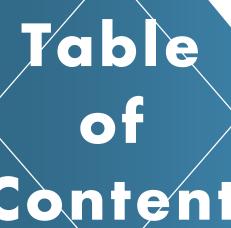








- 1) Citation and Commencement
 - 2) Interpretation
 - 3) Identification of excessive noise
 - 4) Noise Risk Assessment
 - 5) Information, instruction, training and supervision
 - 6) Noise Exposure Limit & Reduction of noise exposure exceeding limit
 - **7)** Personal Hearing Protector
 - 8) Hearing Protection Zone
 - 9) Audiometric Testing
 - 10) Duty of employer when audiometric testing is carried out
 - 11) Record to be kept
 - 12) Penalty







OCCUPATIONAL SAFETY AND HEALTH

1: Citation and commente to the commence of the commence of the commente of the comment of the c

These regulations may be cited as the Occupational Safety and Health (Noise Exposure) Regulations 2019.

These Regulations come into operation on 1st June 2019.

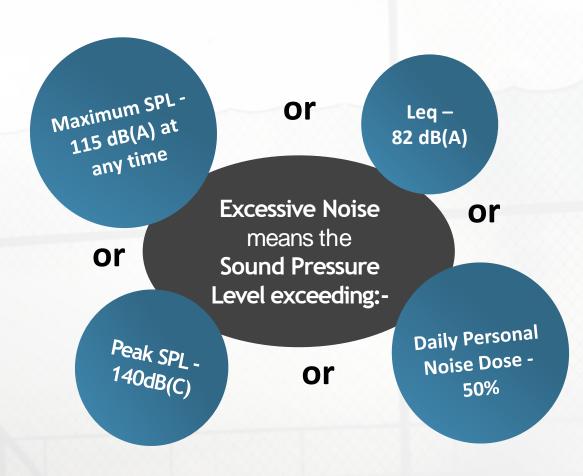


2: Interpretation

| excessive noise | daily noise exposure level exceeding 82 dB(A), daily personal noise dose exceeding fifty per cent, maximum sound pressure level exceeding 115 dB(A) at any time, or peak sound pressure level exceeding 140 dB(C) |
|---|---|
| dB(A) | A—weighted decibel which is a unit of measurement of sound pressure level corrected to the A—weighted frequency scale by means of an electrical network having the characteristics specified accordingly by the International Electrotechnical Commission using a reference sound pressure level of 20 micropascals |
| dB(C) | C-weighted decibel which is a unit of measurement of sound pressure level corrected to the C-weighted frequency scale by means of an electrical network having the characteristics determined by the International Electrotechnical Commission using a reference sound pressure level of 20 micropascals |
| daily noise exposure level | the equivalent continuous sound pressure level corrected for a normal working day of eight hours |
| daily personal noise dose | the cumulative noise exposure of an employee corrected for a normal working day of eight hours |
| International Electrotechnical Commission | the International Electrotechnical Commission that prepares and publishes International Standards for all electrical, electronic and related technologies |

3: Identification of excessive noise

Employer shall identify whether his employee may be exposed to excessive noise in the place of work in the manner as determine by DG.



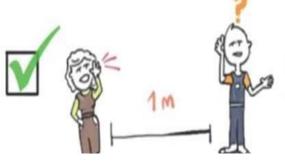
Identification of excessive noise be reviewed when:-

- > change in machinery, equipment, process, work, control measures or operation;
- > after 1 year from the date of the previous identification
- > if directed by Director General

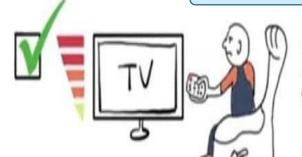


NOISE HAZARD IDENTIFICATION CHECKLISTS Organisation/Company Name: _____ DOSH registration number: Nature of Activities/Business: Work Area/Location/Plant/Process: 'Yes' to any of the following indicates the possibility of excessive noise. **Hazard Identification Questions** Yes 1. Is a raised voice needed to communicate with someone about one meter away? 2. Do your employees notice a reduction in hearing over the course of the day? Example: Need to turn up the radio on the way home, etc. 3. Are your employees using noisy powered tools or machinery? Example: Power tool/noisy machinery - drill, air compressor, etc. 4. Are there noises due to impacts-or explosive sources? Example: (a) noise due to impact - hammer, pneumatic impact tools (b) explosive source - explosive powered tools, detonators, etc. 5. Are personal hearing protectors (PHP) used for some work?

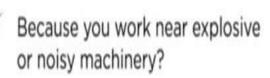
| 6. Do your workers complain that there is too much noise or that they can't clearly hear instructions or warning signals? | | | |
|--|--|--|--|
| 7. Do your workers experience ringing in the ears or sound heard differently in each ear? | | | |
| 8. Has any employee start experiencing difficulties in hearing after working here? | | | |
| indicating noise levels greater than any of the following: (a) peak sound pressure level of 140dB(C)? (b) sound pressure level of 82dB(A)? | | | |
| 10. Is the latest noise risk assessment indicates exposure to Noise Exposure Limit? | | | |
| Assessed by: Verified by: (name & designation) (employer's name) | | | |
| Date: Company's Stamp: | | | |



It's hard to hear, even when you're near?

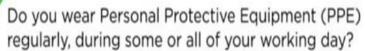


Have to turn up the volume on the TV?











Because you use power tools?



Can't hear when the speaker has their back turned?



Raised voice during normal conservation?



Get ringing, buzzing or humming in your ears?





4: Noise Risk Assessment

EMPLOYER

- Appoint Noise RiskAssessor
- Notify exposed employee within 14 days after receiving report from NRA
- Carry out such recommendations within 30 days after receiving report from NRA
- Review Noise RiskAssessment:
 - a) after 5 years from the date of previous assessment
 - b)if **directed** by **DG**

NOISE RISK ASSESSOR (NRA)

- Registered with Director General (DG)
- Posses valid certificate by DG
- Conduct Noise Risk Assessment using noise measuring equipment comply to IEC
- Report includes the findings and recommendations made based on assessment
- Prepare & submit report to the employer within 1 month



Reg 4-Noise Risk Assessment

Objective

- 1. identify all employees likely to be exposed to excessive noise;
- obtain information on noise sources and work practices that will help in the formulation of new measures that shall be taken to reduce noise;
- 3. check the effectiveness of existing measures taken to reduce noise exposure;
- 4. help in the selection of appropriate PHP;
- 5. demarcate hearing protection zones; and
- 6. determine the need for establishing and implementing HCP



5: Information, instruction, training and supervision

EMPLOYER

- Shall provide adequate information, instruction, training and supervision for his employees that exposed to an EXCESSIVE NOISE.
- Relation to:-
 - ➤ Effects of noise exposure and the requirement to undergo an audiometric testing to such employees
 - Proper usage of a personal hearing protector to such employees
 - Supervise the implementation of noise exposure control at the place of work





6: Noise Exposure Limit (NEL)

- Employer shall ensure, nobody is allowed to be exposed exceeding:-
 - a) Daily Noise Exposure Level 85dB(A) / Daily Personal Noise Dose - 100%
 - b) Maximum SPL 115dB(A) at anytime
 - c) Peak SPL 140dB(C)
- Daily Personal Noise Dose means cumulative noise exposure of an employee corrected for a normal working day of 8 hours.
- If exposed to an excessive noise exceeding NEL, the employer shall take such measures to reduce the excessive noise.



6: Reduction of noise exposure exceeding limit

- The employer shall, before taking the measures, make an assessment whether it is practicable to reduce such excessive noise by way of engineering control or administrative control:
 - a) It is practicable (Eng. Control) noise reduction by engineering control
 - b) It is not practicable (Eng. Control) noise reduction by engineering and administrative control
 - c) It is not practicable (Eng. & Administrative Control) noise reduction by administrative control
 - d) It is not practicable (Administrative Control) other effective measures to reduce such noise



7: Personal Hearing Protector (PHP)

Employer shall ensure PHP provided to the employee -

- a) suitable & efficient
- b) properly inspected, maintained
- c) and made available at all time
- d) will reasonably attenuate the employee's personal noise exposure below NEL
- e) approved by DG





8: Hearing Protection Zone



- Shall ensure any area in the place of work where a person is exposed to NEL
 - a) marked with the words "HEARING PROTECTIONZONE" in capital letter
 - b) demarcated and identified by means of appropriate warning sign

- Employer shall ensure
 - a) to provide PHPin each hearing protection zone
 - b) any employee or other person to use PHP while in the hearing protection zone





9: Audiometric Testing

| EMPLOYER | ATC | OHD |
|--|--|--|
| Cause an audiometric testing to
be carried out on such employee
(exposed to NEL) annually | 3. Appoint Occupational Health Doctor (OHD) to interpret audiogramme. | 4. Carry out medical examination on an employee with abnormal audiogramme |
| 2. Appoint an approvedAudiometric Testing Centre(ATC) to carried out audiometric testing | 7. Submit report on the audiometric testing to employer within 30 days of the date testing | 5. Medical examination shall include a history taking, physical examination and other relevant investigations to diagnose whether being occupational or non-occupational in origin |
| Notify employee of the audiometric testing result within 21 days after receiving the report. | | 6. Notify DG any Occ. Related NIHL,
Hearing Impairment or PSTS within
7 days after Medical Examination |

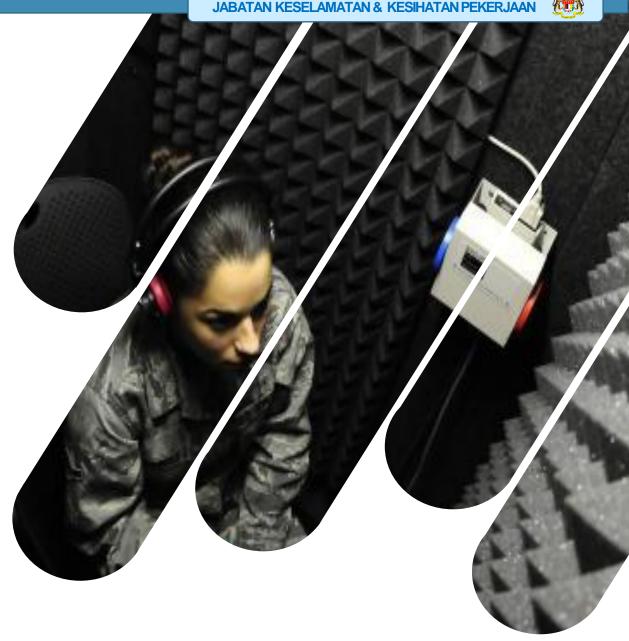


9: Audiometric Testing

| EMPLOYER | ATC | OHD |
|---|-----|-----|
| 9.If temporary STS occurred:- a)Cause a retest to be carried out by ATC on such employee within 3 months after the previous testing b)take such measures to protect the hearing of such employee from further deterioration. | | |
| 10. When the result of audiometric testing shows any Occ. Related NIHL, Hearing Impairment or PSTS, employer shall: a) notify Director of nearest DOSH office within 7 days b) after receiving report from ATC c) provide a PHP to such employee if no PHP is provided previously d)train such employee on the usage of PHP | | |

10: Duty of employer when audiometric testing is carried out

- Employer shall ensure:-
 - > no cost to the employee
 - > Baseline audiogramme be carried outwithin 3 months after employee commencing work at any area which exposed to NEL
 - > audiometric testing is only be carried out in quiet state of at least 14 hours without the aid of PHP
- "quiet"- absence of exposure to sound level exceeding 80 dB(A)



11: Record

to be

kept

Employer shall:-

.) ensure report of noise risk assessment is kept and maintained for a period not less than 30 years

- 2) keep and maintained audiometric testing report of his employee and for a period of 5 years after such employee is ceased
- 3) hand over all records to other person who take over such business where an employer ceases to carry on business
- 4) give the DG at least 3 months notice in writing of his intention to dispose of such records (at the expiration of the period). Transmit the records to DG if requested.





Fine not Exceeding RM10,000

or

Imprisonment for a term not exceeding 1 year

or

вотн



JOISE EXPOSURE 20

THANK YOU FOR YOUR ATTENTION

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f Department of Occupational Safety and Health_DOSH Sarawak