

A view from the regulator – Basics

Chris Steel

Principal Specialist Inspector (Noise & Vibration)

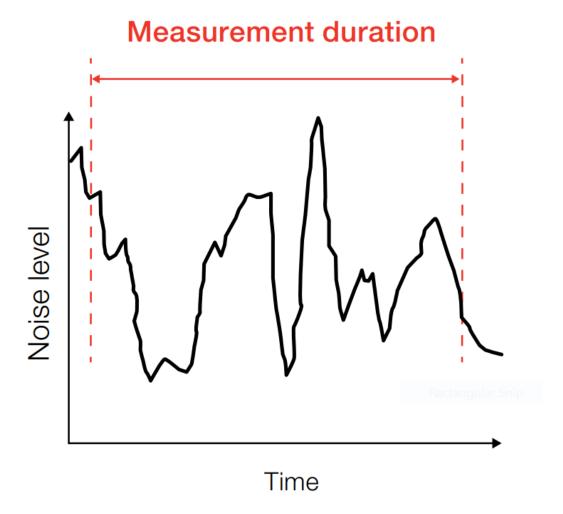
7th November 2023

Section 2. Health and Safety at Work etc. Act 1974

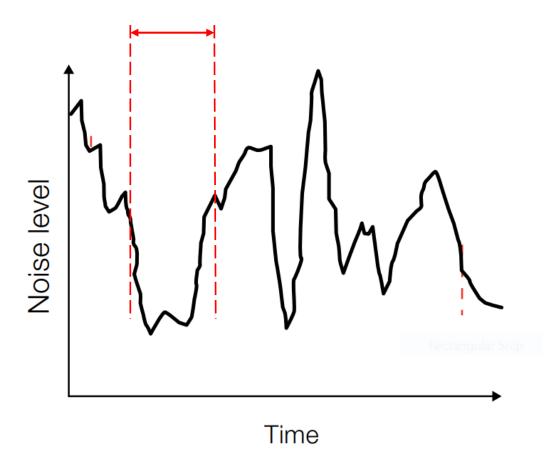


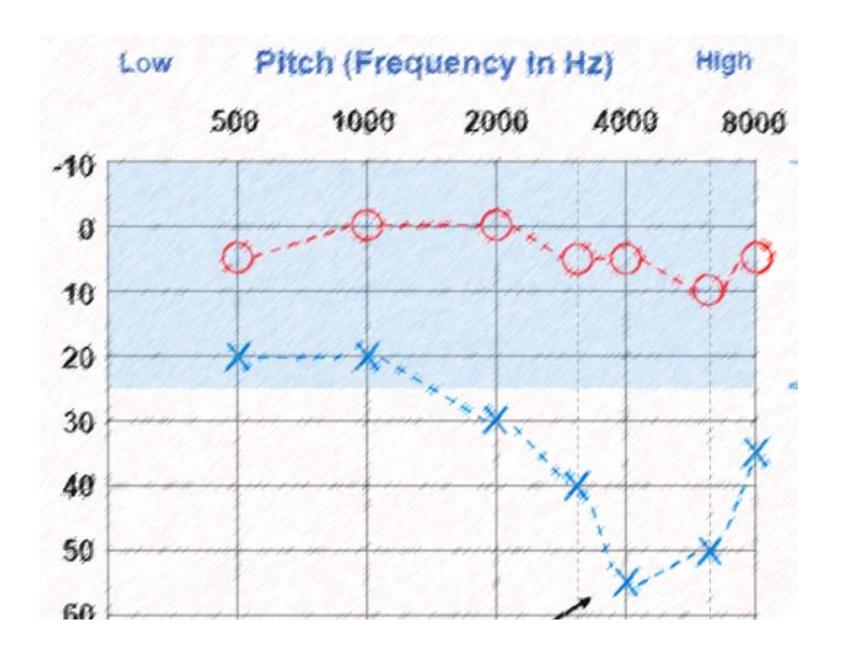
Section 3. Health and Safety at Work etc. Act 1974





Measurement duration





Control of Noise at Work 2005 & it's guidance in L108

Assess the risks (Reg 5)

Identify noise hazards

Identify workers at particular risk from exposure to noise

Estimate likely exposure to noise

Identify measures required to eliminate or reduce risks

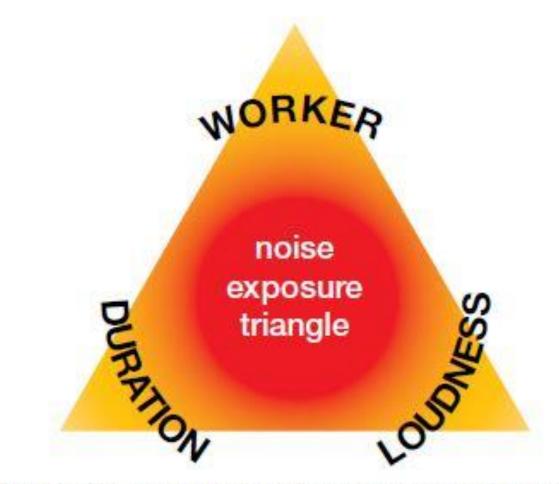
Make a record of action taken and planned



Instrument	Specification standards	Periodic verification standards
	Current standards	
Sound level meter	BS EN 61672-1 ²⁰ Class 1 or 2 IEC 61672-1 Class 1 or 2	BS EN 61672-3 ²¹ IEC 61672-3
Dosemeter	BS EN 61252 ²² IEC 61252	BS EN 61252 IEC 61252
Calibrator	BS EN 60942 ²³ Class LS, 1 or 2 IEC 60942 Class LS, 1 or 2	BS EN 60942 IEC 60942
	Superseded standards	
Sound level meter	BS EN 60804 ²⁴ Type 0, 1 or 2 IEC 804 Type 0, 1 or 2	BS 7580-1 ²⁵ for Type 1 and 2 BS 7580-2 ²⁶ for Type 2 only
Dosemeter	BS 6402:1994 ²⁷	BS 6402:1994
Calibrator	BS 7189 ²⁸ Class 0, 1 or 2 IEC 942 Class 0, 1 or 2	No earlier standard

Eliminate or control noise risks (Reg 6)

- Eliminate or reduce risks using good practice and known control and management solutions
- Obtain quieter tools and machinery
- For the higher-risk areas, plan and put in place technical and organisational control measures
- Make sure the legal limits on noise exposure are not exceeded



Remove any element and overexposure to noise is prevented

> Reduce loudness or duration and exposure is reduced

- Cutting heads/saws
- Fans/air movement
- Compressed air
- Motors and drives
- Vibrating machine casings
- Wheels and bearings

Hearing protection (Reg 7)

- Where there remains a risk, issue your employees with hearing protection
- Make use mandatory for the high-risk cases and manage use with hearing protection zones
- Remember hearing protection is not an alternative to noise control
- Employees: use hearing protection where its use is mandatory



Figure 1 Hearing protection zone sign

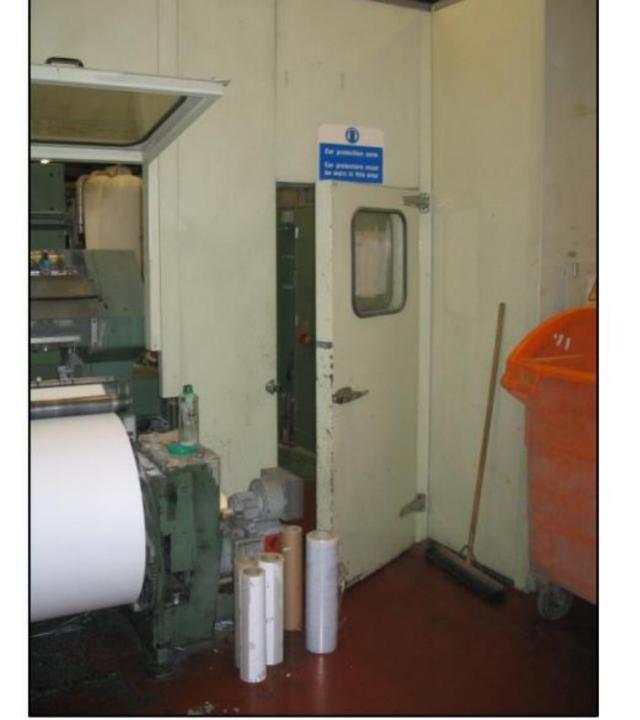
Maintain and use noise-control equipment (Reg 8)

Maintain any noise-control equipment and hearing protection

Ensure that anything supplied is fully and properly used

Employees: use the controls provided and report any defects









Health surveillance (Reg 9) Provide health surveillance (including hearing checks) for those at risk

Use the results to review controls and further protect individuals

Employees: co-operate and attend hearing checks

...equipment should be maintained and calibrated according to the recommendations of BS EN ISO 8253-1.

BS EN ISO 8253-1 gives criteria which should be met in test rooms

OR

Information should be obtained on the attenuation of the headsets, tested according to BS EN ISO 4869-1, which can be used to determine acceptable background levels



Worker information and training (Reg 10)

Give employees information, instruction and training on:

- the risks and safe working practices
- control measures, hearing protection and health surveillance
- Encourage workers to take part in consultations in assessments





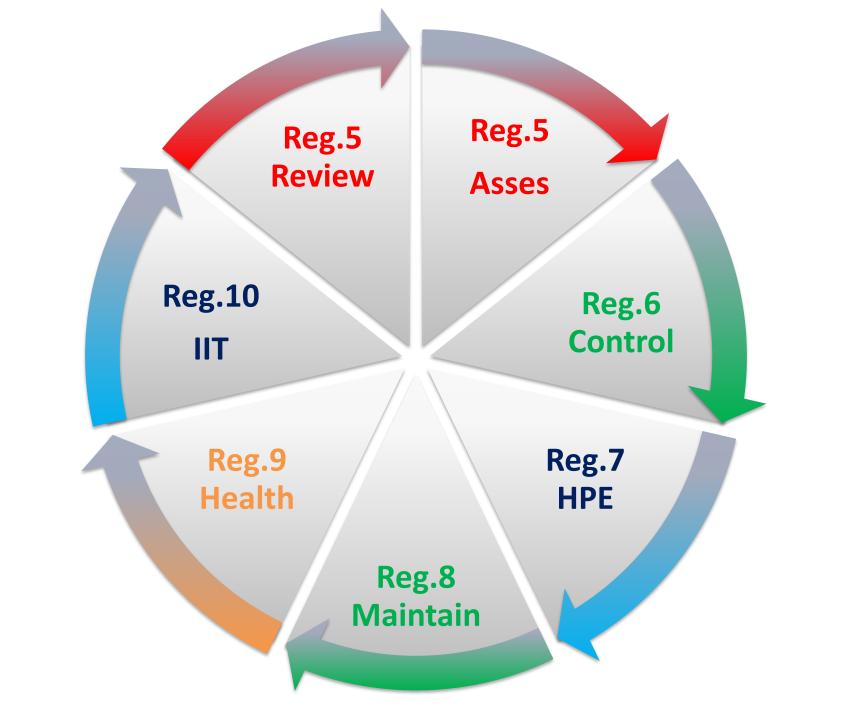


Figure 28 The problems of fitting muff-type ear protectors (eg with long hair, safety glasses or jewellery)





- Noise levels change
- New noise controls become available
- Health Surveillance shows damage
- Controls you couldn't use become usable



Reg 5 https://www.hse.gov.uk/noise/assets/docs/noise-exp-calc.xlsm

Reg 6 https://www.hse.gov.uk/pubns/top10noise.pdf

Reg 7 https://www.hse.gov.uk/noise/assets/docs/hearingcalc.xlsm

Reg 8 https://www.hse.gov.uk/engineering/noise.htm

Reg 9 https://www.hse.gov.uk/health-surveillance/

Reg 10 https://www.hse.gov.uk/noise/worried.htm



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