



Hearing Loss

Make Hearing Protection a Priority in Construction

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Hearing protectors need to be worn for the full time of noise exposure. Removing them for even a short time in a work day significantly increases the noise exposure. For example*, not wearing the hearing protector for one hour of an eight-hour work shift, essentially drops the effective protection from 30 dB to only 9 dB¹. Minutes matter.

Even when noise seems to be at a reasonable level, noise above 85 dbA can still lead to long-term damage. Noise-induced hearing loss is caused by the damage and eventual death of the sensory cells in your ears, called hair cells. Unlike some other cells, human ear hair cells never grow back.¹

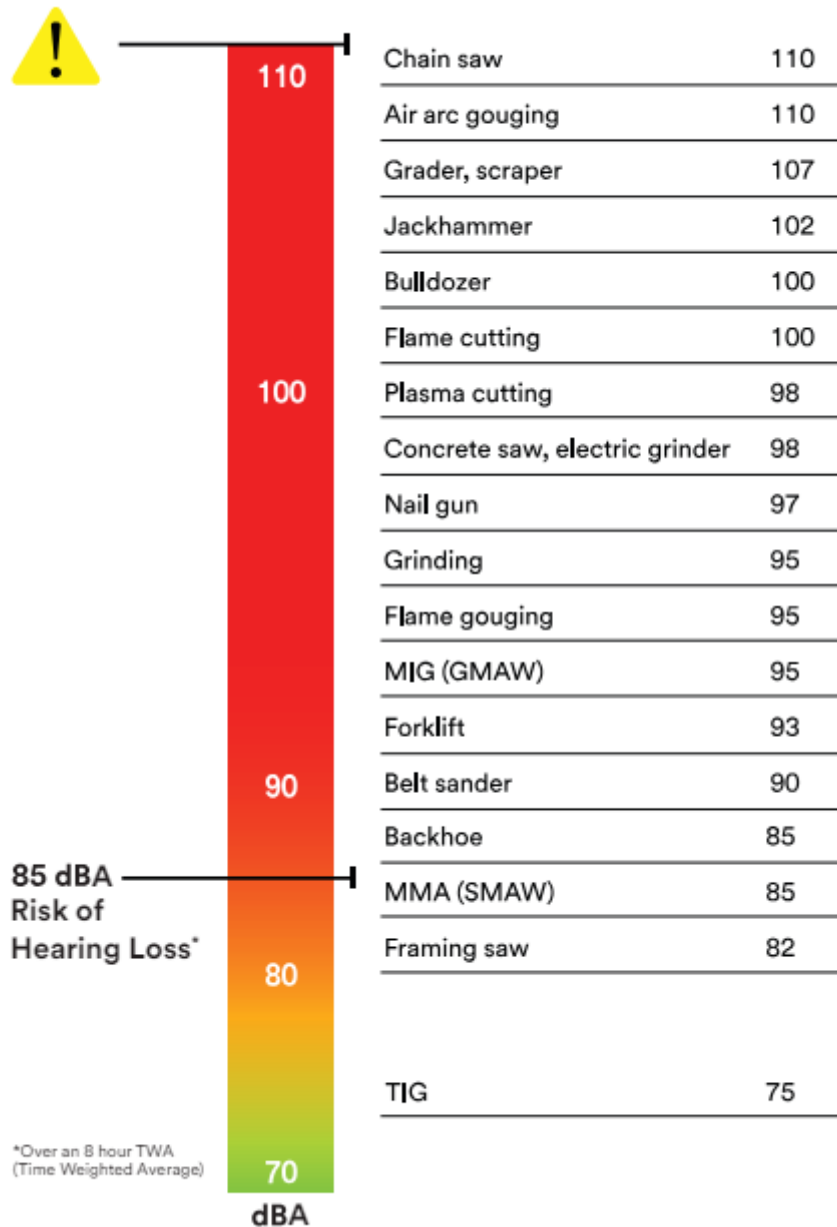
***Exposure to 95 dBA of noise and using NIOSH Recommended Exposure Limit of 85 dBA and 3 dB exchange rate.**



Construction operations often exceed dangerous noise levels.

Many construction site processes create noise that may exceed 85 dBA. Exposure to noises above this level may put construction workers at risk for noise-induced hearing loss.²

Sound Levels in Construction Operations, dBA^{2,6,7}



73% of construction workers are exposed over the NIOSH recommended exposure level of 85 dBA³

52% of construction workers with noise exposure do not wear hearing protection⁴

Factors that may increase noise-induced hearing loss risks:

- Not wearing hearing protection during hazardous noise exposure or removing it to communicate¹
- Not wearing hearing protection that provides enough noise reduction for the task
- Not verifying that the hearing protection fits the worker and that the worker is properly trained
- Absence of hearing protection fit testing to help achieve proper attenuation⁵

Ⓔ Consider these hearing protection and protective communication solutions:

3M™ PELTOR™ X4 Earmuffs

Designed for comfort and moderate to high noise exposure during tough jobs where loud sounds are frequent.

3M™ E-A-R™ Push-Ins™ Earplugs 318-1001, Corded, Poly Bag

Fitting stems help for an easier insertion of the earplugs even when wearing gloves and help keep the earplug clean for construction workers with dirty hands.

3M™ PELTOR™ Electronic Earplug, EEP-100

Helps protect workers' hearing and can help promote auditory situational awareness and communications in challenging environments.

References:

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3. Ⓔ Neitzel R, Stover B, & Seixas N. 2011. Longitudinal assessment of noise exposure in a cohort of construction workers (Table 1). *Annals of Occupational Hygiene*, 55(8):906-916.
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