

<b>Hawk Energy, LLC</b>	Activity: <b>ALL WORK</b> <b>Hearing Protection</b>		Doc No:	HAZ-ID
			Initial Issue Date	12/12/2024
			Revision Date:	12/12/2024
<b>HAZARD IDENTIFICATION AND ASSESSMENT</b>			Revision No.	1
			Next Revision Date:	12/11/2025
Preparation: Kirk Duncan	Authority: David Slim	Issuing Dept: Safety	Page:	1 of 4

## Purpose

- **Hearing Protection**

## Key Responsibilities

- OSHA regulations state that anything over 85 decibels is damaging your hearing.
- Hawk Energy, LLC Management will provide task appropriate hearing protection to all employees at risk of job related noise exposure over safe limits.
- Supervisors / Leads are required to ensure all employees have hearing protection available.
- Hawk Energy, LLC Employees are required to have hearing protection at all times. Employees are required to use hearing protection when noises exceed safe levels or in areas with warning placards.

## Hazard and Risk Identification

Employees MAY be exposed to dangerous sound levels during (but is not limited) to the following activities:

- Use of heavy machinery such as
  - Backhoes
  - Tractors
  - Large compressors
  - Large diesel engines
- Blowing down pressurized equipment
- Grinding metal
- Air tools
- Loud Music
- Construction
- Demolition
- Adjacent work can be a source of dangerous noise levels.

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## Risk Assessment

### Risk Controls/Methods to Ensure Identified Hazards Are Addressed and Mitigated

The following describes how identified hazards are addressed and mitigated:

- Free iPhone applications are available for measuring disable levels. This chart can be used to evaluate the risk. If a more sensitive meter is needed, employees are to contact their supervisor.

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Table 1: Equivalent Noise Exposures LAeq,8h = 85 dB(A)	
Noise Level dB(A)	Exposure Time
80	16 hours <sup>1</sup>
82	12hours <sup>1</sup>
85	8 hours
88	4 hours
91	2 hours
94	1 hour
97	30 minutes
100	15 minutes
103	7.5 minutes
106	3.8 minutes
109	1.9 minutes
112	57 seconds
115	28.8 seconds
118	14.4 seconds
121	7.2 seconds
124	3.6 seconds
127	1.8 seconds
130	0.9 seconds

- Hearing protection should be used during decibel measuring, or if the employee is unsure if the noise levels are safe.
- Hearing protection us mandatory if exposure exceeds the above charted levels.
- Employees are required to have hearing protection available at all times.

### JSA Sample

The following describes how identified hazards are addressed and mitigated:

Basic Job Step	Potential Injury or Hazards	Mitigation / Tools
Blowing Down Pressurized Equip	Hearing Loss	Hearing Protection / Limit Exposure

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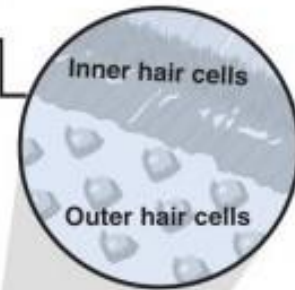
## Other Info

# Hearing loss

*Hearing loss occurs not just because of age, but also because of trauma from loud sounds. Explosions and gunfire are two reasons why soldiers are an at-risk group for hearing loss.*

## Cochlea

These hairs are damaged by loud sound, resulting in hearing loss



## External ear

**Pinna** collects incoming sounds

**Ear canal** works to amplify sound

**Tympanic membrane (eardrum)**

## Middle ear

**Ossicles** send vibrations from the eardrum to the inner ear

## Inner ear

**Semicircular canals** helps with balance

**Cochlea**

**Vestibular nerve** sends information about the body's position to the brain

**Cochlear nerve** sends information relating to sound

**Eustachian tube** controls air pressure in the ear

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