Occupational Hearing Loss Safe

Employees who work in noisy environments or around certain chemicals are at risk of Occupational Hearing Loss. This hearing loss is similar to hearing loss due to aging, where soft sounds may be hard to hear and loud sounds may be unclear or muffled.

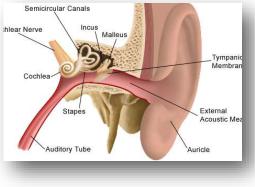
Hearing Loss

A short-term exposure (one-time events) can also cause temporary changes to hearing that go away quickly, but repeated exposures to loud noises can eventually result in permanent hearing loss. You may lose your ability to:

- Hear high-frequency sounds (such as children's voices or the letter 'S'),
- Understand speech (words can become unclear), and
- Communicate effectively (you may not be able to understand your own speech)



How does it happen?



Noise waves travel through our ears to the eardrum. The eardrum vibrates and sends vibrations through the tiny bones inside your ear, which in turn causes fluid in your cochlea to vibrate. These vibrations ripple along hair-like cells called cilia, which creates the nerve signal that tells you that you are hearing sounds.

Loud noises can damage your cilia. These cells are not able to repair themselves or grow back, so once they are damaged or die, they are gone for good. Very loud noises (such as explosions or gunshots) can also damage your eardrums or the bones in your ear.

Definitions

Audiogram:

A hearing test that identifies what volumes and fre- A chemical that can cause nerve damage that may quencies of sounds you can hear. Workplaces with lead to hearing loss, like carbon monoxide or lead. hearing conservation programs will conduct audio- Presbycusis: grams at an employee's hire date to use as a base- Natural hearing loss due to aging. This kind of hearline, and use annual audiograms to determine if an ing loss is gradual and affects your ability to hear employee may have occupational hearing loss.

Cilia:

these cells.

Ototoxicant:

high-pitched sounds.

Tinnitus:

The cells in your middle ear that register sounds of The perception of hearing sounds when no noise is different frequencies. Loud noises can damage present. Tinnitus can be a symptom of hearing loss or other injuries to the