

## *Exposure Limits for Noise.*



Protection against the effects of noise exposure shall be provided when the sound levels exceed those shown in Table N-1 of this section when measured on the A-scale of a standard sound level meter at slow response.

When employees are subjected to sound levels exceeding those listed in Table N-1 below, feasible administrative or engineering controls shall be utilized. If such controls fail to reduce sound levels within the levels in the table, personal protective equipment shall be provided and used to reduce sound levels within the levels of the table.

**TABLE N-1**  
**Permissible Noise Exposure**  
**Permitted Duration Permitted Duration**  
**Sound Per Workday per Workday**

<i>Sound Level (dBA)</i>	<b>Permitted Duration Per Workday</b> <i>(Hours-minutes)</i>	<i>hours</i>	<i>Sound Level (dBA)</i>	<b>Permitted Duration per Workday</b> <i>(hours-minutes)</i>	<i>hours</i>
90.....	8-0.....	8.00	103.....	1-19....	1.32
91.....	6-58.....	6.96	104.....	1-9....	1.15
92.....	6-4.....	6.06	105.....	1-0....	1.00
93.....	5-17.....	5.28	106.....	0-52....	0.86
94.....	4-36.....	4.60	107.....	0-46....	0.76
95.....	4-0.....	4.00	108.....	0-40....	0.66
96.....	3-29.....	3.48	109.....	0-34....	0.56
97.....	3-2.....	3.03	110.....	0-30....	0.50
98.....	2-38.....	2.63	111.....	0-26....	0.43
99.....	2-18.....	2.30	112.....	0-23....	0.38
100.....	2-0.....	2.00	113.....	0-20....	0.33
101.....	1-44.....	1.73	114.....	0-17....	0.28
102.....	1-31.....	1.52	115.....	0-15....	0.25

When the daily noise exposure is composed of two or more periods of noise exposure of different levels, their combined effect should be considered, rather than the individual effect of each. If the sum of the following fractions:  $C_1/T_1 + C_2/T_2 \dots C_n/T_n$  exceeds unity, then, the mixed exposure should be considered to exceed the limit value.  $C_n$  indicates the total time of exposure at a specified noise level, and  $T_n$  indicates the total time of exposure permitted at that level.

*To do a multiple value Computation [Click Here](#)*

### **Hearing conservation program**

The employer shall administer a continuing, effective hearing conservation program whenever employee noise exposures equal or exceed an 8-hour time-weighted average sound level (TWA) of 85 decibels measured on the A-scale (slow response). For purposes of the hearing conservation program, employee noise exposures shall be computed in

accordance with Table 1 above and without regard to any attenuation provided by the use of personal protective equipment.

### **Hearing protectors**

Employers shall make hearing protectors available to all employees exposed to an 8-hour time-weighted average of 85 decibels (dBA) or greater at no cost to the employees. Hearing protectors shall be replaced as necessary. Employers shall ensure that hearing protectors are worn by all employees at a sound level over 90 dBA.

### **Training Program**

The employer shall institute a training program for all employees who are exposed to noise at or above an 8-hour time-weighted average of 85 dBA, and shall ensure employee participation in such program. The training program shall be repeated annually for each employee included in the hearing conservation program. Information provided in the training program shall be updated to be consistent with changes in protective equipment and work processes.

The employer shall ensure that each employee is informed of the following:

- The effects of noise on hearing
- The purpose of hearing protectors, the advantages, disadvantages, and attenuation of various types, and instructions on selection, fitting, use, and care
- The purpose of audiometric testing, and an explanation of the test procedures
- Access to Information and Training Materials

### **Recordkeeping**

#### Exposure Measurements

The employer shall maintain an accurate record of all employee exposure measurements required.

- Audiometric Tests
- The employer shall retain all employee audiograms obtained

This record shall include:

- Name and job classification of the employee.
- Date of the audiogram.
- The examiner's name.
- Date of the last acoustic or exhaustive calibration of the audiometer.
- Employee's most recent noise exposure assessment.
- Audiometric Test Rooms.

For detailed information about **Noise Exposure Limit** program [Click Here](#)