

SHOEBOX Audiometry is an ideal solution for employers looking to manage their OSHA-mandated hearing testing programs in-house and provide a positive testing experience for their employees.

Employers in the United States are required to comply with the following standard from the Occupational Health and Safety Administration (OSHA) '29 CFR part 1910 Occupational Safety and Health Standards, Subpart G, Occupational Health and Environmental Control, standard 1910.95 Occupational Noise Exposure' for hearing testing and hearing conservation programs.

While OSHA compliance remains the responsibility of the employer, the use of SHOEBOX Audiometry meets the requirements for testing equipment in relevant sections of 1910.95, detailed below. SHOEBOX Audiometry also has a data management portal that facilitates users' record-keeping, and provides automated shift-analysis and reporting tools for employers.

| Number | Requirement | SHOEBOX Audiometry | |
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| 1910.95(g) | Audiometric Testing Program | | |
| 1910.95(g)(7)(iii)(C) | Measurements of background sound pressure levels in the audiometric test room as required in Appendix D: Audiometric Test Rooms. | ✓ | SHOEBOX Audiometry includes a room scan feature which, together with its Class 2 external microphone, provides octave-band sound pressure level measurement capability. |
| 1910.95(g)(10) | Standard Threshold Shift | ✓ | SHOEBOX Audiometry reporting alerts user to OSHA standard threshold shifts. |
| 1910.95(h) | Audiometric Test Requirements | | |
| 1910.95(h)(1) | Audiometric tests shall be pure tone, air conduction, hearing threshold examinations, with test frequencies including as a minimum 500, 1000, 2000, 3000, 4000, and 6000 Hz. Tests at each frequency shall be taken separately for each ear. | ✓ | SHOEBOX Audiometry meets these requirements. |
| 1910.95(h)(2) | Audiometric tests shall be conducted with audiometers (including microprocessor audiometers) that meet the specifications of, and are maintained and used in accordance with, American National Standard Specification for Audiometers, S3.6-1969, which is incorporated by reference as specified in Sec. 1910.6. | ✓ | SHOEBOX Audiometry meets specifications of a Type 3 Audiometer as defined by ANSI S3.6-1969 and ANSI S3.6-2018 |

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| 1910.95(h)(3) | Pulsed-tone and self-recording audiometers, if used, shall meet the requirements specified in Appendix C: "Audiometric Measuring Instruments." | ✓ | SHOEBOX Audiometry meets all requirements of Appendix C. |
| 1910.95(h)(5) | Audiometer calibration. | | |
| 1910.95(h)(5)(i) | The functional operation of the audiometer shall be checked before each day's use by testing a person with known, stable hearing thresholds, and by listening to the audiometer's output to make sure that the output is free from distorted or unwanted sounds. Deviations of 10 decibels or greater require an acoustic calibration. | ✓ | SHOEBOX Audiometry includes a biological calibration feature to enable compliance with this requirement. |
| 1910.95(h)(5)(ii) | Audiometer calibration shall be checked acoustically at least annually in accordance with Appendix E: "Acoustic Calibration of Audiometers." Test frequencies below 500 Hz and above 6000 Hz may be omitted from this check. Deviations of 15 decibels or greater require an exhaustive calibration. | ✓ | SHOEBOX Audiometry offers calibration service that enables compliance with this requirement. |
| 1910.95(h)(5)(iii) | An exhaustive calibration shall be performed at least every two years in accordance with sections 4.1.2; 4.1.3.; 4.1.4.3; 4.2; 4.4.1; 4.4.2; 4.4.3; and 4.5 of the American National Standard Specification for Audiometers, S3.6-1969. Test frequencies below 500 Hz and above 6000 Hz may be omitted from this calibration. | ✓ | All SHOEBOX Audiometry calibrations are exhaustive calibrations per ANSI S3.6-1969 and ANSI S3.6-2018. |
| Appendix C | Audiometric Measuring Instruments | ✓ | SHOEBOX Audiometry complies. |
| Appendix D | Sound Level Monitoring | ✓ | SHOEBOX's room scan functionality meets the functional noise monitoring requirements as described in OSHA 1910.95 Appendix D by the following methods: <ul style="list-style-type: none"> - Use of a Class 2 external microphone with traceable annual |

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| | | | <p>calibration</p> <ul style="list-style-type: none"> - Hardware-assisted FFT isolates 5 frequencies (0.5, 1, 2, 4, 8KHz) with Z-weighting. - Class II Octave-Band filtering applied as per ANSI S1.11-2004 <p>Furthermore, SHOEBOX continuously monitors ambient noise during automated testing and will alert the administrator if OSHA MPANLs are exceeded.</p> <p>In addition, SHOEBOX Audiometry offers noise-attenuating headphones that effectively insulate the test subject's ears against a significant amount of ambient noise during testing.</p> |
| Appendix E | Acoustic Calibration of Audiometers | ✓ | SHOEBOX Audiometry complies. |
| Appendix F | Calculations and Application of Age Corrections to Audiograms | ✓ | SHOEBOX Audiometry includes age correction feature. |