

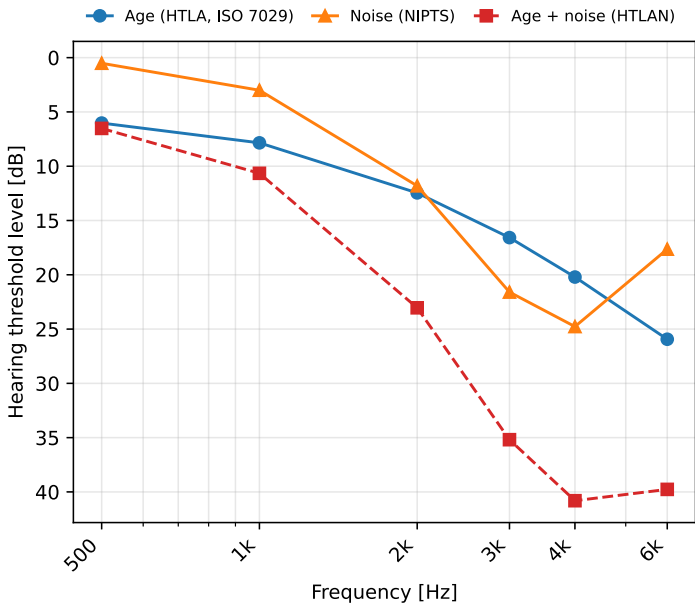
Hearing threshold level prediction (age and noise)

Statistical prediction of the hearing threshold level associated with age and noise per ISO 1999:2013 (clause 6.1).

Company:	Example fabrication works	Worker(s) / group:	Machine operator (60 years, 30 years in role)
Workplace:	Steel assembly hall, line 2	Date of assessment:	2026-07-20

Threshold level by frequency

Frequency [Hz]	H [dB]	N [dB]	H' [dB]
500	6.0	0.5	6.5
1000	7.8	3.0	10.7
2000	12.5	11.8	23.0
3000	16.6	21.6	35.2
4000	20.2	24.8	40.8
6000	25.9	17.6	39.8



Predicted hearing threshold level (age and noise) averaged over 2/3/4 kHz = **33.0 dB HL**

Listener: male, age 60 years
Noise exposure $L_{EX,8h} = 95$ dB over 30 years
Population fractile $Q = 0.5$ (median)

These values are a statistical prediction for a noise-exposed population (ISO 1999:2013), not a clinical diagnosis or a measured audiogram of any individual.

The population fractile Q is the fraction of the noise-exposed population predicted to show a smaller threshold shift, so a higher fractile is a more-susceptible individual (ISO 1999:2013, 6.3.2).

Laboratory: Phonometry reference example

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Date: 2026-07-20

Notes: Predicted age-plus-noise threshold per ISO 1999:2013 clause 6.1.

Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.