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ISO 9612

**Acoustics — Determination of
occupational noise exposure —
Methodology**

*Acoustique — Détermination de l'exposition au bruit en milieu de
travail — Méthodologie*

**Third edition
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This second edition cancels and replaces the first edition (ISO 9612:2009), which has been technically revised.

The main changes are as follows:

- A reshaping of the guidance on measurement of L_{p,A,eqT_m} for the task-based strategy (9.3).
- A revision of the measurement plan for the job-based strategy (10.2).
- The addition of Homogeneous noise Exposure Groups (HEG) sampling requirements for the full-day measurement strategy and the addition of criteria to validate sampling (11.3).
- Some precisions and clarifications on the instrumentation section.
- Some additions to the test report section: number of peak events, $L_{EX,8h,95\%}$.
- The addition of C.7 in Annex C, which gives the formulae to calculate the measurement uncertainty when multiple nominal days are used. An Annex H is also introduced to clarify uncertainty of peak measurements.
- The introduction of a new Annex G.
- The introduction of a new Annex H.
- A full revision of the Excel calculation file attached to this document.

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This document provides a stepwise approach to the determination of occupational noise exposure from noise level measurements. The procedure contains the following major steps: work analysis, selection of measurement strategy, measurements, error handling and uncertainty evaluations, calculations, and presentation of results. This document specifies three different measurement strategies: task-based measurement; job-based measurement; and full-day measurement. This document gives guidance on selecting an appropriate measurement strategy for a particular work situation and purpose of investigation. This document also provides an informative spreadsheet to allow calculation of measurement results and uncertainties. ISO is not responsible for errors that shall arise or occur with the use of this spreadsheet.

This document recognizes the use of hand-held sound level meters as well as personal sound exposure meters. The methods specified optimize the effort required for obtaining a given accuracy.