

**Akustika. Audiomeetrilised katsemeetodid. Osa 3:  
Kõneaudiomeetria (ISO 8253-3:2012)**

**Acoustics - Audiometric test methods - Part 3: Speech  
audiometry (ISO 8253-3:2012)**

## EESTI STANDARDI EESSÕNA

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English Version

**Acoustics - Audiometric test methods - Part 3: Speech  
audiometry (ISO 8253-3:2012)**

Acoustique - Méthodes d'essais audiométriques - Partie 3:  
Audiométrie vocale (ISO 8253-3:2012)

Akustik - Audiometrische Prüfverfahren - Teil 3:  
Sprachaudiometrie (ISO 8253-3:2012)

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## Foreword

This document (EN ISO 8253-3:2012) has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 211 "Acoustics" the secretariat of which is held by DS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2012, and conflicting national standards shall be withdrawn at the latest by September 2012.

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### Endorsement notice

The text of ISO 8253-3:2012 has been approved by CEN as a EN ISO 8253-3:2012 without any modification.

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## Introduction

Speech audiometry is used for the assessment of hearing in connection with diagnostic evaluation and audiological rehabilitation.

The results of speech audiometry depend on the speech material and test method used. This part of ISO 8253 sets conditions for speech materials in order to assure minimum requirements of precision and comparability between different tests using different speech materials including materials in different languages. It also specifies procedures to be used when testing speech recognition.

# Acoustics — Audiometric test methods —

## Part 3: Speech audiometry

### 1 Scope

This part of ISO 8253 specifies basic methods for speech recognition tests for audiological applications.

In order to ensure minimum requirements of precision and comparability between different test procedures including speech recognition tests in different languages, this part of ISO 8253 specifies requirements for the composition, validation and evaluation of speech test materials, and the realization of speech recognition tests. This part of ISO 8253 does not specify the contents of the speech material because of the variety of languages.

Furthermore, this part of ISO 8253 also specifies the determination of reference values and fulfilment requirements for the realization and manner of presentation.

This part of ISO 8253 specifies procedures and requirements for speech audiometry with the recorded test material being presented by air conduction through an earphone, or from a loudspeaker for sound field audiometry. Methods for using noise either for masking the non-test ear or as a competing sound are described.

Some test subjects, for example children, can require amended test procedures not specified in this part of ISO 8253.

Specialized tests such as those used for evaluating directional hearing and dichotic hearing are outside the scope of this part of ISO 8253.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 266, *Acoustics — Preferred frequencies*

ISO 8253-1, *Acoustics — Audiometric test methods — Part 1: Pure-tone air and bone conduction audiometry*

ISO 8253-2, *Acoustics — Audiometric test methods — Part 2: Sound field audiometry with pure-tone and narrow-band test signals*

ISO/IEC Guide 98-3, *Uncertainty of measurement — Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)*

IEC 60645-1, *Electroacoustics — Audiological equipment — Part 1: Pure-tone audiometers*

IEC 60645-2:1993, *Audiometers — Part 2: Equipment for speech audiometry*

IEC 61672-1, *Electroacoustics — Sound level meters — Part 1: Specifications*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8253-1 and ISO 8253-2 and the following apply.