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NATIONAL STANDARD OF THE
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GB/T 27025-2019 / ISO/IEC 17025:2017

Replacing GB/T 27025-2008

**General requirements for the competence of testing
and calibration laboratories**

检测和校准实验室能力的通用要求

(ISO/IEC 17025:2017, IDT)

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Foreword

This Standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 27025-2008 "General requirements for the competence of testing and calibration laboratories". Compared with GB/T 27025-2008, in addition to editorial changes, the main technical changes are as follows:

- Structural adjustment. The main clauses of this Standard are: general requirements, structural requirements, resource requirements, process requirements and management system requirements;
- Risk-based considerations reduce the requirements of the specification and replace them with performance-based requirements;
- More flexibility in the requirements of processes, procedures, documented information and organizational responsibilities;
- ADD the definition of "laboratory" (see 3.6);
- ADD the definition and related content of "decision rule" (see 3.7 and 7.1, etc.);
- CHANGE the content of informative Annex A to "Metrological traceability";
- CHANGE the content of informative Annex B to "Management system options";
- Delete "Preventive action" (see 4.12 of GB/T 27025-2008). The content is included in this Standard "Actions to address risks and opportunities" (see 8.5);
- Delete "Subcontracting of tests and calibrations" (see 4.5 of GB/T 27025-2008). The content is included in this Standard "Externally provided products and services" (see 6.6).

This Standard, using translation method, is identical to ISO/IEC 17025:2017 "General requirements for the competence of testing and calibration laboratories" (English edition).

China's document which has a consistent correspondence with the international document normatively referenced in this Standard is as follows:

- GB/T 27000-2006 Conformity assessment - Vocabulary and general principles (ISO/IEC 17000:2004, IDT).

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee 261 on Certification and Accreditation of Standardization Administration of China (SAC/TC 261).

Drafting organizations of this Standard: China National Accreditation Service for Conformity Assessment; National Institute of Metrology, China; China Certification & Accreditation Association; China Household Electric Appliance Research Institute; National Research Center for Geoanalysis.

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The previous editions of the standard replaced by this Standard were released as follows:

- GB/T 27025-2008;
- GB/T 15481-2000.

General requirements for the competence of testing and calibration laboratories

1 Scope

This Standard specifies the general requirements for the competence, impartiality and consistent operation of laboratories.

This Standard is applicable to all organizations performing laboratory activities, regardless of the number of personnel.

Laboratory customers, regulatory authorities, organizations and schemes using peer-assessment, accreditation bodies, and others use this Standard in confirming or recognizing the competence of laboratories.

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

ISO/IEC Guide 99 International vocabulary of metrology - Basic and general concepts and associated terms (VIM)¹⁾

ISO/IEC 17000 Conformity assessment - Vocabulary and general principles

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC Guide 99 and ISO/IEC 17000 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: <http://www.iso.org/obp>;
- IEC Electropedia: <http://www.electropedia.org/>.

1) ISO/IEC Guide 99 is also known as JCGM 200.

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