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ISO/IEC 17020

Conformity assessment — Requirements for bodies performing inspection

Évaluation de la conformité — Exigences pour les organismes effectuant des inspections

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html. In the IEC, see www.iec.ch/understanding-standards.

This document was prepared by the ISO Committee on Conformity Assessment (CASCO), in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/CLC/JTC 1, *Criteria for conformity assessment bodies,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO/IEC 17020:2012), which has been technically revised.

The main changes are as follows:

— the categorization of the inspection body’s independence type has been changed to type A and type non-A;

— a definition of “item” and a definition of “client” have been included;

— a new subclause on the control of data and information and actions to address risks and opportunities has been added;

— the common elements in CASCO standards have been incorporated;

— the risk-based thinking applied in this edition has enabled some reduction in prescriptive requirements and their replacement by performance-based requirements;

— there is greater flexibility than in the previous edition in the requirements for processes, procedures, documented information and organizational responsibilities.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

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Introduction

This document was developed to promote confidence in bodies performing inspection.

Inspection bodies perform inspection activities on behalf of private clients, their parent organizations, regulatory authorities, or others, with the objective of providing information about the conformity of inspected items with regulations, standards, specifications, inspection schemes or contracts. Inspection parameters include matters of quantity, quality, safety, fitness for purpose, and conformity of inspected item(s) with specified requirements (e.g. safety compliance of installations or systems in operation). This document provides requirements for the competence, impartiality and consistent operation of inspection bodies as a basis to promote confidence about and acceptance of inspection results by clients, regulatory authorities and others.

This document covers the activities of inspection bodies whose work can include the examination of materials, products, installations, plants, processes, work procedures or services, and the determination of their conformity with requirements and the subsequent reporting of results of these activities to clients and, when required, to regulatory authorities. Inspection can concern all stages during the lifetime of these items, including the design stage. Such work normally requires the exercise of professional judgement in performing inspection, in particular when assessing conformity with general requirements.

This document can be used as a requirements document for accreditation or peer-assessment or other assessments.

The requirements of this document can be interpreted when applied to particular sectors.

Inspection can be an activity embedded in a larger process. For example, inspection can be specified as a surveillance activity in a product certification scheme. Likewise, results of other conformity assessment activities can be used as an input when performing inspection activities. Inspection can be an activity that precedes maintenance or simply provides information about the inspected item with no determination of conformity with requirements.

The categorization of inspection bodies as type A and type non-A reflects the level of their independence. The impartiality requirements are equally applicable to both type A and type non-A inspection bodies.

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Conformity assessment — Requirements for bodies performing inspection

1 Scope

This document contains requirements for the competence and impartiality of bodies performing inspection, and for the consistent operation of their inspection activities.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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/IEC 17000:2020, *Conformity assessment — Vocabulary and general principles*

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
inspection
examination of an *item* (3.8) and determination of its conformity with detailed requirements or, on the basis of professional judgement, with general requirements

Note 1 to entry: Examination can include direct or indirect observations, which can include measurements or the output of instruments.

Note 2 to entry: Inspection results normally include a statement of conformity regarding the item. However, schemes or contracts can specify inspection as examination only.

[SOURCE: ISO/IEC 17000:2020, 6.3, modified — In the definition, "object of conformity assessment" has been replaced by "item"; the original Notes 2 and 3 to entry have been removed; a new Note 2 to entry has been added.]

3.2
inspection body
body that performs *inspection* (3.1)

3.3
inspection scheme
inspection programme
set of rules and procedures that describes the *item* (3.8), identifies the specified requirements and provides the methodology for performing *inspection* (3.1)

Note 1 to entry: Inspection schemes can be operated at the international, regional, national, sub-national or industry sector level.

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