

**TR ISO/TS 22809:2022**  
**ISO/TS 22809:2007, IDT**  
(ICS 03.100.30; 19.100)

**TECHNICAL REFERENCE**

**Non-destructive testing – Discontinuities in  
specimens for use in qualification examinations**

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## National Foreword

This Technical Reference (TR) was prepared by the Working Group on Non-destructive Testing (also known as National Mirror Working Group on ISO/TC 135) set up by the Technical Committee on Workplace Safety and Health under the purview of the Quality and Safety Standards Committee.

This TR is an identical adoption of ISO/TS 22809:2007, “Non-destructive testing – Discontinuities in specimens for use in qualification examinations” published by the International Organization for Standardization.

NOTE 1 – Where appropriate, the words “Technical Specification” are read as “Technical Reference”.

NOTE 2 – Reference to International/Overseas Standards are replaced by applicable Singapore Standards or Technical References.

This TR is a provisional standard made available for application over a period of three years. The aim is to use the experience gained to update the TR so that it can be adopted as a Singapore Standard. Users of the TR are invited to provide feedback on its technical content, clarity and ease of use. Feedback can be submitted using the form provided in the TR. At the end of the three years, the TR will be reviewed, taking into account any feedback or other considerations, to further its development into a Singapore Standard if found suitable.

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**Non-destructive testing — Discontinuities  
in specimens for use in qualification  
examinations**

*Essais non destructifs — Discontinuités dans les échantillons d'essai  
utilisés pour les examens de qualification*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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ISO/TS 22809 was prepared by Technical Committee ISO/TC 135, *Non-destructive testing*, Subcommittee SC 7, *Personnel qualification*.

# Non-destructive testing — Discontinuities in specimens for use in qualification examinations

## 1 Scope

This Technical Specification has been established to consider and define types of discontinuities to be exhibited in test specimens for use in non-destructive testing examinations.

Acoustic emission testing, infrared thermography testing, strain testing and leak testing need not define discontinuity type, due to their specific approach (e.g. replaced in AT by artificial sources).

## 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 9712:2005, *Non-destructive testing — Qualification and certification of personnel*

ISO 4063, *Welding and allied processes — Nomenclature of processes and reference numbers*

ISO 6520-1, *Welding and allied processes — Classification of geometric imperfections in metallic materials Part 1: Fusion welding*