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Aerospace series - Qualification and approval of personnel for nondestructive testing

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/26

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English Version

Aerospace series - Qualification and approval of personnel for nondestructive testing

Série aérospatiale - Qualification et agrément du
personnel pour les essais non destructifs

Luft- und Raumfahrt - Qualifizierung und Zulassung
des Personals für zerstörungsfreie Prüfungen

This European Standard was approved by CEN on 2 February 2026.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 4179:2026) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

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 August 2026, and conflicting national standards shall be withdrawn at the latest by August 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 4179:2021.

This document includes the following significant technical changes with respect to EN 4179:2021:

- updated Table 5 and Table 6 education requirements;
- modified Table 7 vision requirements and specification of EN ISO 18490:2015;
- added basic examination as a pre-requisite for Level 3 examination;
- updated reinstatement of certifications;
- added Annex D - credit system for initial qualification to Level 3;
- updated subclause 1.2.3 methods;
- expanded Terms and definitions.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

EN 4179:2026 (E)**Introduction**

Order of precedence: In the event of a conflict between the text of this document and the references cited herein, the requirements of this document take precedence. Nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.

1 Scope

1.1 General

This document establishes the minimum requirements for the qualification and certification of personnel performing nondestructive testing (NDT), nondestructive inspection (NDI), or nondestructive evaluation (NDE) in the aerospace manufacturing, service, maintenance and overhaul industries. For the purposes of this document, the term NDT will be used and will be considered equivalent to NDI and NDE.

In Europe, the term “approval” is used to denote a written statement by an employer that an individual has met specific requirements and has operating approval. The term “certification” as defined in 3.3 is used throughout this document as a substitute for the term “approval”. Except when otherwise specified in the written practice, certification in accordance with this document includes operating approval.

1.2 Purpose

1.2.1 Applicability

This document applies to personnel who:

- use NDT methods or equipment to test and/or accept materials, products, components, assemblies or sub-assemblies;
- are directly responsible for the technical adequacy of the NDT methods and equipment used;
- operate automatic interpretation or evaluation systems;
- approve NDT procedures or work instructions;
- audit NDT facilities; or
- provide technical NDT support or training.

This document does not apply to individuals who only have administrative or supervisory authority over NDT personnel or to research personnel developing NDT technology for subsequent implementation and approval by a certified Level 3. See Clause 8 regarding applicability to personnel performing specialized inspections using certain direct readout instruments.

1.2.2 Implementation

This document addresses the use of a National Aerospace NDT Board (NANDTB). NANDTBs are only used as specified per Annex C and it is not mandatory to have such a board for compliance with this document. Personnel certified to previous revisions of NAS410/EN 4179 need not recertify to the requirements of this document until their current certification expires.

1.2.3 NDT methods

This document contains detailed requirements for the following NDT methods:

eddy current testing	(ET)
penetrant testing	(PT)
magnetic particle testing	(MT)
radiographic testing	(RT)

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shearography testing	(ST)
thermographic testing	(IRT)
ultrasonic testing	(UT)

When invoked by engineering, quality, cognizant engineering organization or prime contractor requirements, this document applies to other NDT methods used to determine the acceptability or suitability for intended service of a material, part, component, sub-assembly or assembly. Such methods can include, but are not limited to, acoustic emission, neutron radiography, leak testing, and holography.

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.

EN ISO 9712, *Non-destructive testing — Qualification and certification of NDT personnel (ISO 9712)*

EN ISO 18490:2015, *Non-destructive Testing — Evaluation of vision acuity of NDT personnel (ISO 18490:2015)*

NAS410, *NAS Certification & Qualification of Nondestructive Test Personnel*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN