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**Aeronavtika - Kvalificiranje in odobritev osebja za neporušitvene preiskave**

Aerospace series - Qualification and approval of personnel for nondestructive testing

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

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

**Ta slovenski standard je istoveten z: EN 4179:2026**

**ICS:**

03.100.30	Vodenje ljudi	Management of human resources
19.100	Neporušitveno preskušanje	Non-destructive testing
49.020	Letala in vesoljska vozila na splošno	Aircraft and space vehicles in general

**SIST EN 4179:2026****en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 4179**

February 2026

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**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.

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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of an identical text or by endorsement, at the latest by August 2026, and conflicting national standards shall be withdrawn at the latest by August 2026.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.

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## **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.

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# 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*

**3 Terms and definitions**

For the purposes of this document, the following terms and definitions 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****automated equipment**

machinery, systems, and/or apparatuses designed to perform tasks, partially or fully, without human intervention in the task being performed

**3.2****basic examination**

examination utilized to verify a Level 3 candidate's knowledge of NDT methods, materials, and manufacturing processes, including those used by the employer, at a Level 2 proficiency and NAS410/EN 4179 requirements

**3.3****certification**

written statement by an employer that an individual has met the applicable requirements of this document

**3.4****closed book examination**

examination administered without access to any reference materials

**3.5****cognizant engineering organization**

engineering or NDT organization of the prime contractor, OEM (original equipment manufacturer), or end user authorized to make NDT-related decisions and give NDT-related approvals

**3.6****committee or panel meetings**

meetings, conferences, symposia, seminars, trade association meetings, panels, etc. organized or sponsored by a regional, national or international NDT organization or technical society

**3.7****committee projects**

specific identifiable official activities of regional or national technical societies, committees or work groups, such as round robins or individual studies, preparation of guidelines, appendices, specifications, recommended practices, procedures, codes or standards, etc.

**3.8****direct observation**

when the observer is able to view the NDT process in a manner that permits uninterrupted, visual and verbal two-way contact with the trainee

**3.9****direct readout instrument**

instruments that physically display measurements in dimensional or electrical units (e.g. inches, millimetres or % IACS) either as digital readout or an analogue display, such as a scale/pointer configuration, or that display go/no-go outputs, and do not require special skills or knowledge to set up the instrument or inspection and do not involve adjusting parameters or signal displays such as gates, delays, gain, or phase to obtain valid measurements

EXAMPLE Common direct readout instruments include basic ultrasonic thickness gauges without an oscilloscope display, and eddy current coating thickness gauges.

**3.10****documented**

condition of being recorded in written or electronic form

**3.11****employer**

organization employing or contracting the services of one (1) or more individuals who perform NDT

Note 1 to entry: Self-employed individuals are included in this definition.

**3.12****evaluation**

review following interpretation of the indications noted during an NDT inspection to determine whether the indications meet specified acceptance criteria or to determine the significance of the indication

**3.13****examination**

formal, controlled, documented testing conducted in accordance with a documented written practice to verify a candidate's visual capability, skill, or knowledge of an NDT method

**EN 4179:2026 (E)****3.14****Examiner**

Level 3 certified to this document and designated by the Responsible Level 3 to administer all or part of the qualification process in the NDT method(s) in which the Examiner is certified

**3.15****experience**

actual performance of an NDT method conducted in the work environment in line with expected duties/training plan, resulting in the acquisition of knowledge and skill

Note 1 to entry: This does not include formal classroom training but may include laboratory and on-the-job training as defined by the employer's written practice.

**3.16****formal education**

engineering or physical science studies at a technical school, college, or university

**3.17****formal training**

organized and documented program of learning activities designed to impart the knowledge and skills necessary to be qualified to this document

Note 1 to entry: Formal training may be a mix of classroom, practical, and programmed self-instruction as approved by the Responsible Level 3 or Examiner.

**3.18****general examination**

written examination addressing the basic principles and theory of an NDT method

**3.19****indication**

response or evidence of a condition resulting from an NDT inspection that requires interpretation

**3.20****instructor**

Individual designated or approved by the Responsible Level 3 or Examiner to provide formal training and who may be designated to provide on-the-job training for NDT personnel

**3.21****interpretation**

determination of whether indications are relevant or non-relevant

**3.22****method**

one of the disciplines of nondestructive testing (e.g. ultrasound, radiography) within which different techniques may exist

**3.23****National Aerospace NDT Board****NANDTB**

independent aerospace organization representing a nation's aerospace industry that is chartered by the participating prime contractors and recognized by the nation's regulatory agencies to provide or support NDT qualification and/or examination services in accordance with Annex C of this document