

This document is a preview generated by EVS

Aerospace series - Qualification and approval of personnel for nondestructive testing

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 4179:2026 sisaldab Euroopa standardi EN 4179:2026 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 04.02.2026.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 4179:2026 consists of the English text of the European standard EN 4179:2026.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 04.02.2026.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 03.100.30, 19.100, 49.020

<p>Standardite ja standardilaadsete dokumentide reprodutseerimise ja levitamise õigus kuulub Eesti Standardimis- ja Akrediteerimiskeskusele</p> <p>Eesti standardid ja standardilaadsed dokumendid on Eesti Standardimis- ja Akrediteerimiskeskuse intellektuaalomand ning neid kasutatakse litsentsi alusel dokumentide kasutuslepingu tingimuste kohaselt.</p> <p>Ilma Eesti Standardimis- ja Akrediteerimiskeskuse eelneva kirjaliku loata on keelatud standardite ja standardilaadsete dokumentide täielik või osaline reprodutseerimine, levitamine, muutmine või kasutamine mis tahes kujul ja viisil - sealhulgas kopeerimise, skaneerimise, salvestamise või jagamise teel digiplatvormidel (k.a masinõppe ja tehisintellekti rakendustes). Loata kasutamine väljaspool litsentsi tingimusi käsitletakse õigusrikkumisena.</p> <p>Kui Teil on küsimusi standardite ja standardilaadsete dokumentide autoriõiguse kaitse kohta, võtke palun ühendust Eesti Standardimis- ja Akrediteerimiskeskusega: Veebileht www.evs.ee; telefon +372 6055050; e-post info@evs.ee</p> <p>The right to reproduce and distribute standards and standard-like documents belongs to the Estonian Centre for Standardisation and Accreditation</p> <p>Estonian standards and standard-like documents are the intellectual property of the Estonian Centre for Standardisation and Accreditation and are made available under license in accordance with the terms and conditions of the document use agreement.</p> <p>Without the prior written permission of the Estonian Centre for Standardisation and Accreditation, the full or partial reproduction, distribution, modification, or use of standards and standard-like documents in any form or by any means - including photocopying, scanning, storing, or sharing via digital platforms (incl. in machine learning and artificial intelligence applications) - is strictly prohibited. Any unauthorized use beyond the scope of the granted license is prohibited and may result in legal action.</p> <p>If you have any questions about copyright, please contact Estonian Centre for Standardisation and Accreditation: Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee</p>

EUROPEAN STANDARD

EN 4179

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2026

ICS 03.100.30; 19.100; 49.020

Supersedes EN 4179:2021

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

Contents	Page
European foreword	5
Introduction	6
1 Scope	7
1.1 General	7
1.2 Purpose	7
1.2.1 Applicability	7
1.2.2 Implementation	7
1.2.3 NDT methods	7
2 Normative references	8
3 Terms and definitions	8
4 General requirements	13
4.1 Written practice	13
4.1.1 Qualification and certification	13
4.1.2 Additional requirements	13
4.1.3 NDT techniques	13
4.1.4 Training outlines	14
4.1.5 Examination practices	14
4.1.6 Administration	14
4.1.7 Records	14
4.2 Methods	14
4.3 Responsibility	14
4.3.1 General	14
4.3.2 Responsible Level 3	14
4.3.3 Outside agency	15
5 Qualification and certification levels	15
5.1 General	15
5.2 Trainee	15
5.3 Level 1-Limited	16
5.4 Level 1	16
5.5 Level 2	16
5.6 Level 3	17
5.7 Auditor	17
6 Training and experience	17
6.1 Training	17
6.1.1 General	17
6.1.2 Training outlines	18
6.1.3 Previous training	19
6.1.4 Equivalent training	19
6.1.5 Health and safety training	19
6.2 Training and examination personnel	19
6.2.1 Examiners	19
6.2.2 Instructors	20
6.2.3 Outside agencies	20
6.3 Experience	20

6.3.1	General	20
6.3.2	Previous experience	20
6.3.3	Equivalent experience	20
6.4	Other NDT methods	21
6.4.1	General	21
6.4.2	Minimum hours	21
6.4.3	Levels 1 and 2	22
6.4.4	Level 3	22
7	Examinations	22
7.1	Purpose	22
7.1.1	General	22
7.1.2	Vision examination	23
7.1.3	Basic examination	23
7.1.4	General examination	24
7.1.5	Specific examination	24
7.1.6	Practical examination	24
7.2	Administration of examinations	25
7.2.1	General	25
7.2.2	Administration by an outside agency	25
7.2.3	Scoring	26
7.2.4	Re-examination	26
8	Certification	26
8.1	General	26
8.2	Records	26
8.2.1	Minimum requirements	26
8.2.2	Record availability	27
8.3	Loss of certification	27
8.3.1	Expiration	27
8.3.2	Suspension	27
8.3.3	Revocation	28
8.4	Reinstatement of certification	28
8.5	Recertification	28
8.5.1	Level 1 and Level 2	28
8.5.2	Level 3	28
8.5.3	Hands-on practical examination	28
8.6	Annual proficiency review	28
Annex A	(normative) Credit system for recertification of Level 3 NDT personnel	29
A.1	Scope	29
A.2	Requirements	29
Annex B	(normative) Qualification and certification of Level 1-limited	31
B.1	Scope	31
B.2	Requirements	31
Annex C	(normative) National Aerospace Nondestructive Testing Boards (NANDTB)	34
C.1	Scope	34
C.2	Requirements	34
C.3	Examinations	36
C.4	Record retention	36

Annex D (normative) Credit system for initial qualification to Level 3	37
D.1 Scope.....	37
D.2 Requirements.....	37

This document is a preview generated by EVS

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.

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.

This document is a preview generated by EVS

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)

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