

Aerospace series - Quality management systems - Requirements for Aerospace Quality Management System Certification/Registrations Programs

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 9104:2006 sisaldab Euroopa standardi EN 9104:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.05.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 9104:2006 consists of the English text of the European standard EN 9104:2006.</p> <p>This document is endorsed on 29.05.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>These requirements are applicable to IAQG sector schemes when making use of ABs, CRBs and their auditors, for the assessment and certification/registration of supplier quality systems in accordance with the requirements of this document.</p>	<p>Scope:</p> <p>These requirements are applicable to IAQG sector schemes when making use of ABs, CRBs and their auditors, for the assessment and certification/registration of supplier quality systems in accordance with the requirements of this document.</p>
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ICS 03.120.10, 49.020

Võtmesõnad:

English Version

**Aerospace series - Quality management systems -
Requirements for Aerospace Quality Management System
Certification/Registrations Programs**

Série aérospatiale - Systèmes de management de la
qualité - Exigences applicables aux processus de
certification des Systèmes de Management de la Qualité
dans le domaine aérospatial

Luft- und Raumfahrt - Qualitätsmanagementsysteme -
Anforderungen an Zertifizierungsverfahren für
Qualitätsmanagementsysteme der Luft- und Raumfahrt

This European Standard was approved by CEN on 3 February 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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



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Foreword

This European Standard (EN 9104:2006) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, 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 October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

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

In December 1998, the Aerospace Industry established the International Aerospace Quality Group (IAQG) with the purpose of achieving significant improvements in quality and reductions in cost throughout the value stream.

The IAQG has developed specific requirements for quality systems that are to be implemented and maintained throughout the supply chain in the design, manufacture and maintenance of products used in aviation and space applications. These requirements are published simultaneously as AS/EN/JISQ 9100-series by SAE in the Americas, AECMA in Europe and JISQ in Asia/Pacific. Other countries will follow with technically identical national standards.

In this European Standard, these standards are indicated as Aerospace Quality Management Systems (AQMS) Standards.

A further initiative of the IAQG was the development of a truly global scheme for the use of assessment results performed by Certification/Registration Bodies (CRBs), based on the 9100-series standards and taking into account the schemes already in use or under development in the various IAQG sectors.

All these schemes have two major elements in common:

- Use of a voluntary certification/registration scheme with specific aerospace elements and requirements, under the supervision and control of the aerospace industry.
- A harmonized approach to the CRBs with the purpose to improve the quality level and control throughout the whole supply chain.

This European Standard provides requirements for sectorial/regional schemes for the controlled use of assessment results of CRBs, based on three fundamentals:

- Use of accredited CRBs.
- Use of qualified and approved aerospace auditors.
- Use of international aerospace standards for quality management systems in aerospace industry.

This European Standard addresses the following issues:

- a) Qualification and accreditation of CRBs.
- b) Assessment of quality systems by accredited CRBs.
- c) The principles for determining the content and duration of assessments.

- d) Reporting and control of nonconformities.
- e) The form of registration recommendations.
- f) Minimum standards of qualification and experience for aerospace auditors employed by CRBs.
- g) Authentication of auditors by CRBs, Accreditation Bodies (ABs) and the IAQG sectors.
- h) Oversight of ABs by applicable Sector Management Structure (SMS).
- i) Oversight of CRBs by applicable SMS and IAQG Original Equipment Manufacturers (OEM).
- j) Operation of the IAQG oversight function.

This European Standard introduces certification/registration to the 9110 (maintenance organizations) and 9120 (stockist/distributors) standards, use of ISO 19011, mandatory use of the scoring process, as well as a number of clarifications and detail improvements resulting from the initial operation of the scheme. The requirements of this document are effective upon publication.

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

1 Scope

1.1 General

These requirements are applicable to IAQG sector schemes when making use of ABs, CRBs and their auditors, for the assessment and certification/registration of supplier quality systems in accordance with the requirements of this document.

The quality management system standard used by the CRB shall be EN 9100/9110/9120, as appropriate to the supplier's activities. It shall be applied to the supplier's complete Quality System that covers aerospace products. Sectors may use these requirements for other standards.

IAQG members have committed to recognize the equivalence of certification/registration of a suppliers quality management system to either of the AS, EN or JISQ/SJAC standards.

1.2 Purpose

The purpose of this European Standard is to give requirements on the process for providing aerospace companies and their suppliers with assessment and certification/registration of their quality systems, by accredited CRBs.

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.

EN 9100, *Aerospace series — Quality management systems — Requirements (based on ISO 9001:2000) and Quality systems — Model for quality assurance in design, development, production, installation and servicing (based on ISO 9001:1994)*.¹⁾

EN 9110, *Aerospace series — Quality systems — Model for quality assurance applicable to maintenance organizations*.¹⁾

EN 9120, *Aerospace series — Quality management systems — Requirements for stockist distributors (based on ISO 9001:2000)*.¹⁾

NOTE 1 The above standards are referred throughout this document as AQMS Standards.

EN 9101, *Aerospace series — Quality management systems — Assessment (based on ISO 9001:2000)*.^{1) 2)}

EN 9111, *Aerospace series — Quality management systems — Assessment applicable to maintenance organizations (based on ISO 9001:2000)*.¹⁾

EN 9121, *Aerospace series — Quality management systems — Assessment applicable to stockist distributors (based on ISO 9001:2000)*.¹⁾

NOTE 2 The above standards are referred throughout this document as the Aerospace Assessment Report and Questionnaires.

EN 9102, *Aerospace series — Quality Systems — First article inspection*.¹⁾

1) Or the corresponding AAQG standards (e.g. AS, ARP, etc.) or APAQG (e.g. JISQ, SJAC, HB, etc.).

2) Published as AECMA Prestandard at the date of publication of this standard.

EN 9103, *Aerospace series — Quality management systems — Variation management of key characteristics*.¹⁾

ISO 9001, *Quality management systems — Requirements*.

ISO 19011, *Guidelines for quality and/or environmental management systems auditing*.

ISO/IEC Guide 61, *General requirements for assessment and accreditation of certification/registration bodies*.

ISO/IEC Guide 62, *General requirements for bodies operating assessment and certification/registration of quality systems*.

IAF Guidance on the Application of ISO/IEC Guide 61.

IAF Guidance on the Application of ISO/IEC Guide 62.

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

3.1

Accreditation Body (AB)

body recognized by an IAQG sector that has the primary responsibility for the accreditation of CRBs to issue certifications/registrations to AQMS standards

3.2

aerospace

business of design, manufacture, maintenance, distribution and support of aviation vehicles and engines, accessories and component parts, all ancillary and allied businesses including aerospace vehicle operations

3.3

aerospace experience auditor ³⁾

auditor that has met the requirements set forth in 7.2, 7.3 or 7.4 of this document

3.4

aerospace product

aircraft, rotorcraft, guided weapon, launcher, spacecraft or other product designed to travel through the air, inside or outside the ground effect, or to travel outside the influence of the earth's atmosphere or major components of these products such as engines or major sub-systems or parts, appliances, equipment and materials as contained in these

3.5

auditor ³⁾

person that has met the requirements set forth in 7.1 of this document

3.6

Certification/Registration Body (CRB)

party that audits and certifies/registers the quality management system of organizations with respect to published quality management system standards and any supplementary documentation required under the system

3.7

International Aerospace Quality Group (IAQG)

body of prime aerospace OEMs. This group is chartered to develop common requirements for use by the aerospace industry for quality improvement.

3) Sectors may use other names for "Auditor", "Aerospace Auditor" and "Aerospace Experienced Auditor" as long as the requirements of this document are applied.