

<b>STN</b>	<b>Systemy manažérstva kvality Požiadavky auditu na organizácie v letectve, kozmonautike a obrane</b>	<b>STN EN 9101</b>  31 0439
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Quality Management Systems - Audit Requirements for Aviation, Space, and Defence Organisations

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. 10/18

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English Version

## Quality Management Systems - Audit Requirements for Aviation, Space, and Defence Organisations

Systèmes de Management de la Qualité - Exigences  
d'Audits pour les Organisations de l'Aéronautique,  
l'Espace et la Défense

Qualitätsmanagementsysteme - Audit-Anforderungen  
für Organisationen der Luftfahrt, Raumfahrt und  
Verteidigung

This European Standard was approved by CEN on 10 March 2017.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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## **European foreword**

This document (EN 9101:2018) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-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 ASD, 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 November 2018, and conflicting national standards shall be withdrawn at the latest by November 2018.

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.

This document supersedes EN 9101:2015.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 9101:2018 (E)****Rationale**

This standard has been revised to incorporate the requirements for accredited Certification Bodies (CBs) introduced by International Organization for Standardization (ISO) / International Electrotechnical Commission EN ISO/IEC 17021-1:2015, the 2016 changes to International Aerospace Quality Group EN 9100-series standards Quality Management System (QMS) requirements, and inputs received from interested parties relating to process-based auditing methods and the evaluation of process effectiveness.

**Foreword**

To assure customer satisfaction, aviation, space, and defence organizations must provide and continually improve safe and reliable products and services that meet or exceed customer and applicable statutory and regulatory requirements. The globalization of the industry and the resulting diversity of regional and national requirements and expectations have complicated this objective. Organizations have the challenge of purchasing products and services from suppliers, throughout the world, at all levels of the supply chain. Suppliers have the challenge of delivering products and services to multiple customers having varying quality requirements and expectations.

Industry established the IAQG, with representatives from aviation, space, and defence companies in the Americas, Asia/Pacific, and Europe, to implement initiatives that make significant improvements in quality and reductions in cost throughout the value stream.

This document has been prepared by the IAQG and standardizes the requirements for conducting and reporting of QMS audits. It can be used at all levels of the supply chain by organizations around the world.

It provides requirements for an audit and reporting process, based on the:

- process and continual improvement approach defined in EN 9100-series standards;
- specific aviation, space, and defence additions in EN 9100-series standards;
- use of common audit tools; and
- uniform, transparent, and standardized reporting of audit results.

In this standard, the following terms are used:

- “shall” indicates a requirement;
- “should” indicates a recommendation;
- “may” indicates a permission; and
- “can” indicates a possibility or capability.

Words “typical”, “example”, or “e.g.” indicate suggestions given for guidance. Information marked “NOTE” is for guidance in understanding or clarifying the associated requirement.

## **0 Introduction**

### **0.1 General**

Auditing is a basic tool to assess effective implementation of and conformity to QMS requirements. In addition to assessing conformity, this standard focuses on the evaluation of effectiveness (see EN ISO 9000 clause 3.7.11) of the QMS and its associated processes.

An organization is not only required to be in conformity with QMS requirements, but to be effective in meeting customer expectations and delivering products and services that meet those expectations.

Additionally, this standard takes into account the requirements presented in the 2016 revisions of the EN 9100-series standards.

### **0.2 Auditing approach**

This standard supports the engagement and evaluation of an organization's QMS process approach, as required by the EN 9100-series standards. When evaluating an organization's QMS, there are basic questions that should be asked of every process, for example:

- a) Is the process appropriately determined?
- b) Are responsibilities assigned?
- c) Are the processes adequately implemented and maintained?
- d) Is the process effective in achieving the desired results?

The collective answers to these and other associated questions will contribute to the evaluation results.

In addition, product and service quality (as delivered), customer satisfaction, and QMS effectiveness can be considered as interrelated. This relationship should be reflected in the audit process and associated results.

### **0.3 Audit records and reports**

This standard defines the audit records and reports to be generated, during the audit process. They are critical in providing the organization and its customers with objective evidence on the conformity and effectiveness of the QMS (including process effectiveness), and reporting the audit results in a standard format/structure.

# EN 9101:2018 (E)

## 1 Scope

### 1.1 General

This document defines requirements for the preparation and execution of the audit process. In addition, it defines the content and composition for the audit reporting of conformity and process effectiveness to the EN 9100-series standards, the organization's QMS documentation, and customer and statutory/regulatory requirements.

The requirements in this document are additions or represent changes to the requirements and guidelines in the standards for conformity assessment, auditing, and certification as published by ISO/IEC (i. e., EN ISO/IEC 17000, EN ISO/IEC 17021-1). When there is conflict with these standards, the requirements of the EN 9101 standard shall take precedence.

NOTE 1 In this standard, the term "EN 9100-series standards" comprises the following Aerospace Quality Management System (AQMS) standards: EN 9100, EN 9110, and EN 9120; developed by the IAQG and published by various national standards bodies.

NOTE 2 In addition to this standard, the IAQG publishes deployment support material on the IAQG website (see <http://www.sae.org/iaqg/>) that can be used by audit teams, when executing the audit process.

### 1.2 Application

This document shall be used for audits of EN 9100-series standards by CBs for certification of organizations, under the auspices of the aviation, space, and defence industry certification scheme [also known as the Industry Controlled Other Party (ICOP) scheme]. The ICOP scheme requirements are defined in the EN 9104-series standards (i. e., EN 9104-001, EN 9104-002, EN 9104-003).

NOTE Relevant parts of this standard can also be used by an organization in support of internal audits (1<sup>st</sup> party) and external audits at suppliers (2<sup>nd</sup> party).

## 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 9100<sup>1</sup>, *Quality Management Systems — Requirements for Aviation, Space and Defence Organizations*

EN 9102<sup>1</sup>, *Aerospace First Article Inspection Requirement*

EN 9104-001<sup>1</sup>, *Aerospace series — Quality management systems — Part 001: Requirements for Aviation, Space, and Defence Quality Management System Certification Programs*

EN 9104-002<sup>1</sup>, *Aerospace series — Quality management systems — Part 002: Requirements for Oversight of Aerospace Quality Management System Registration/Certification Programs*

EN 9104-003<sup>1</sup>, *Aerospace series — Quality management systems — Part 003: Requirements for Aerospace Quality Management System (AQMS) Auditor Training and Qualification*

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<sup>1</sup> As developed under the auspice of the IAQG and published by various standards bodies [e. g., SAE International, European Committee for Standardization (CEN), Japanese Standards Association/Society of Japanese Aerospace Companies (JSA/SJAC), Brazilian Association for Technical Norms (ABNT)].



EN 9110<sup>1</sup>, *Quality Management Systems — Requirements for Aviation Maintenance Organizations*

EN 9115<sup>1</sup>, *Quality Management Systems — Requirements for Aviation, Space and Defence Organizations — Deliverable Software (Supplement to EN 9100:2016)*

EN 9120<sup>1</sup>, *Quality Management Systems — Requirements for Aviation, Space and Defence Distributors*

EN 9131<sup>1</sup>, *Aerospace series — Quality Management Systems — Nonconformance Data Definition and Documentation*

EN ISO 9000:2015, *Quality management systems — Fundamentals and vocabulary*

EN ISO/IEC 17000, *Conformity assessment — Vocabulary and general principles (ISO/IEC 17000:2004)*

EN ISO/IEC 17021-1, *Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 1: Requirements (ISO/IEC 17021-1:2015)*

IAQG Procedure 105.6, *IAQG Forms Management*

IAF MD 3:2008, *IAF Mandatory Document for Advanced Surveillance and Recertification Procedures*

IAF MD 4:2008, *IAF Mandatory Document for the Use of Computer Assisted Auditing Techniques (“CAAT”) for Accredited Certification of Management Systems*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**