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Aerospace series - Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space, and Defence Organizations

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

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## Aerospace series - Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space, and Defence Organizations

Série aérospatiale - Programme de prévention des  
dommages causés par un corps étranger (FOD) -  
Exigences pour les Organismes de l'Aéronautique,  
l'Espace et la Défense

Luft- und Raumfahrt - Programm zur Verhinderung  
von Schäden durch Fremdkörper (FOD) -  
Anforderungen an Organisationen der Luftfahrt,  
Raumfahrt und Verteidigung

This European Standard was approved by CEN on 22 January 2018.

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 9146:2018) 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 April 2019, and conflicting national standards shall be withdrawn at the latest by April 2019.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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 9146:2018 (E)****Rationale**

Foreign Object Damage (FOD) is a major concern in the aviation, space, and defence industry. While there is a large amount of information and guidance available about the prevention of FOD, no requirements standard exists. This European standard identifies FOD Prevention Program requirements that can be flowed down in contractual agreements.

**Foreword**

To assure customer satisfaction, the aviation, space, and defence industry organizations must produce and continually improve safe, reliable products that meet or exceed customer and regulatory authority requirements. The globalization of the industry and the complexity of resulting organizations' supply chains have complicated this objective. End-product organizations face the challenge of assuring the quality of, and integrating, product purchased from suppliers throughout the world and at all levels within the supply chain. Furthermore, suppliers and processors, within the industry, face the challenge of delivering product to multiple customers having varying quality expectations and requirements.

The aviation, space, and defence industry established the International Aerospace Quality Group (IAQG) for the purpose of achieving significant improvements in quality and safety, and reductions in cost, throughout the value stream. This organization includes representation from aviation, space, and defence companies in the Americas, Asia/Pacific, and Europe.

The IAQG benchmarked industry best practices and guidance to develop the requirements of this FOD Prevention Program standard. This document standardizes FOD Prevention Program requirements to the greatest extent possible and can be used at all levels of the supply chain by organizations around the world to mitigate FOD risk to aviation, space, and defence products and services.

## 1 Scope

This European standard defines FOD Prevention Program requirements for organizations that design, develop, and provide aviation, space, and defence products and services; and by organizations providing post-delivery support, including the provision of maintenance, spare parts, or materials for their own products and services.

It is emphasized that the requirements specified in this European standard are complementary (not alternative) to customer, and applicable statutory and regulatory requirements. Should there be a conflict between the requirements of this standard and applicable statutory or regulatory requirements, the latter shall take precedence.

## 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, *Quality Management Systems — Requirements for Aviation, Space and Defence Organizations*

EN 9110, *Quality Management Systems — Requirements for Aviation Maintenance Organizations*

EN 9120, *Quality Management Systems — Requirements for Aviation, Space and Defence Distributors*

NOTE Equivalent versions (e.g., AS, EN, JISQ, SJAC, NBR) of the IAQG standards listed above are published internationally in each sector.

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

IAQG, *Supply Chain Management Handbook (SCMH) — Foreign Object Prevention Program Guidance Material* (<http://www.sae.org/iaqg/>)

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