

SLOVENSKI STANDARD oSIST prEN ISO/IEC 17021-2:2018

01-september-2018

Ugotavljanje skladnosti - Zahteve za organe, ki presojajo in certificirajo sisteme vodenja - 2. del: Zahteve za usposobljenost za presojanje in certificiranje sistemov ravnanja z okoljem (ISO/IEC 17021-2:2016)

Conformity assessment - Requirements for bodies providing audit and certification of management systems - Part 2: Competence requirements for auditing and certification of environmental management systems (ISO/IEC 17021-2:2016)

Konformitätsbewertung - Anforderungen an Stellen, die Managementsysteme auditieren und zertifizieren - Teil 2: Anforderungen an die Kompetenz für die Auditierung und Zertifizierung von Umweltmanagementsystemen (ISO/IEC 17021-2:2016)

Évaluation de la conformité - Exigences pour les organismes procédant à l'audit et à la certification des systèmes de management - Partie 2: Exigences de compétence pour l'audit et la certification des systèmes de management environnemental (ISO/IEC 17021-2:2016)

Ta slovenski standard je istoveten z: prEN ISO/IEC 17021-2

ICS:

03.100.70	Sistemi vodenja	Management systems
03.120.20	Certificiranje proizvodov in podjetij. Ugotavljanje skladnosti	Product and company certification. Conformity assessment
13.020.10	Ravnanje z okoljem	Environmental management

oSIST prEN ISO/IEC 17021-2:2018 en

oSIST prEN ISO/IEC 17021-2:2018

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO/IEC 17021-2:2019

https://standards.iteh.ai/catalog/standards/sist/372e3a9c-d614-4e99-bce9-2f5e71b4dc49/sist-en-iso-iec-17021-2-2019

INTERNATIONAL STANDARD

ISO/IEC 17021-2

First edition 2016-12-01

Conformity assessment —
Requirements for bodies providing
audit and certification of management
systems —

Part 2:

Competence requirements for auditing and certification of strength environmental management systems

Évaluation de la conformité — Exigences pour les organismes procédant à l'audit et à la certification des systèmes de management —

Partie 2: Exigences de compétence pour l'audit et la certification des systèmes de management environnemental



iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO/IEC 17021-2:2019
https://standards.iteh.ai/catalog/standards/sist/372e3a9c-d614-4e99-bce9-2f5e71b4dc49/sist-en-iso-iec-17021-2-2019



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

Co	ntent	SS .	Page
Fore	eword		v
Intr	oductio	n	vi
1		e	
_	-		
2		native references	
3	Term	ns and definitions	1
4	Gene	eric competence requirements	1
5	Com	petence requirements for EMS auditors	2
	5.1	General	
	5.2	Environmental terminology	
	5.3	Environmental metrics	
	5.4	Environmental monitoring and measuring techniques	
	5.5	Environmental aspects and impacts	
	5.6	Life cycle perspective	
	5.7 5.8	Environmental performance evaluation	
	5.6 5.9	Emergency preparedness and response	
	5.10	Operational control	
	5.11	Factors related to site	
	5.12	Scope	3
	5.13	Communicated information	3
	5.14	Context of the organization	3
	5.15	Risks and opportunities	3
6	Aspe	ect-specific competence requirements for EMS auditing	4
	6.1	General SIST EN ISO/JEC 17021-2:2019	4
	$6.2_{\rm hi}$	Emissions to air	
		6.2.1 General	
		6.2.2 Gases, aerosols and particulate matter	
		6.2.3 Operational control	
	()	6.2.4 Monitoring and measurement	
	6.3	Releases to land 6.3.1 General	
		6.3.2 Liquid or solid releases	
		6.3.3 Operational control	
		6.3.4 Monitoring and measurement	
	6.4	Releases to water	
		6.4.1 General	5
		6.4.2 Surface and ground water	5
		6.4.3 Operational control	
		6.4.4 Monitoring and measurement	
	6.5	Uses of raw materials, energy and natural resources	
		6.5.1 Upstream management	
		6.5.2 Downstream management	
		6.5.3 Operational control	
	6.6	Energy emitted	
	0.0	6.6.1 Sources of energy emissions	
		6.6.2 Operational control	
		6.6.3 Monitoring and measurement	
	6.7	Waste	
		6.7.1 Sources of waste	
		6.7.2 Operational control	
		6.7.3 Monitoring and measurement	7

oSIST prEN ISO/IEC 17021-2:2018

ISO/IEC 17021-2:2016(E)

	6.8	se of space	7
		Jse of space	7
		.8.2 Operational control	7
		.8.3 Monitoring and measurement	7
7	Comp	ence requirements for other personnel	7
	7.1	leneral	7
	7.2	competence of personnel conducting the application review to determine the udit team competence required, to select the audit team members and to	_
		etermine the audit time	/
		.2.1 Environmental terminology	/
		.2.2 Environmental aspects and impacts	7
		.2.3 Factors related to site.2.4 Scope	7
	7.3	competence of personnel reviewing audit reports and making certification decisions	٤
		3.1 Environmental terminology	E
		.3.2 Environmental aspects and impacts	E
		3.3 Environmental performance evaluation	٤
		3.4 Compliance obligations	5
		.3.5 Scope	E
Annex	A (info	mative) Knowledge for EMS auditing and certification	9
	aranhr	1	1

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO/IEC 17021-2:2019
https://standards.iteh.ai/catalog/standards/sist/372e3a9c-d614-4e99-bce9-

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of conformity assessment, ISO and IEC develop joint ISO/IEC documents under the management of the ISO Committee on Conformity assessment (ISO/CASCO).

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

ISO/IEC 17021-2 was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 2, *Environmental auditing and related environmental investigations*, and the ISO Committee on conformity assessment (CASCO). It was circulated for voting to the national bodies of both ISO and IEC, and was approved by both organizations.

This first edition of ISO/IEC 17021-2 cancels and replaces ISO/IEC/TS 17021-2:2012, which has been technically revised.

The following major changes have been made compared with ISO/IEC/TS 17021-2:2012:

- addition of the new requirements of ISO 14001:2015 which required additional competence to audit them:
- adaptation of the competence requirements to reflect the greater focus in ISO 14001:2015 on expected outcomes;
- clarification of the difference between sustainable development and sustainability;
- inclusion of competence criteria for the auditor to understand the context of the organization;
- inclusion of competence to audit the reliability of client communications about their EMS.

A list of all parts in the ISO/IEC 17021 series can be found on the ISO website.

Introduction

This document complements ISO/IEC 17021-1. In particular, it clarifies the requirements for the competence of personnel involved in the certification process set out in ISO/IEC 17021-1:2015, Annex A.

Certification bodies have a responsibility to interested parties, including their clients and the customers of the organizations whose management systems are certified, to ensure that only those auditors who demonstrate the relevant competence are allowed to conduct environmental management system (EMS) audits. All EMS auditors should possess the generic competencies described in ISO/IEC 17021-1 as well as the specific EMS knowledge described in this document.

Certification bodies will need to identify the specific audit team competence needed for the scope of each EMS audit. The selection of an EMS audit team will depend upon various factors, including the EMS technical area, the context of an organization, its environmental aspects and the site where these aspects occur.

The competence requirements for other personnel involved in certification activities are also described.

In this document, the following verbal forms are used:

- "shall" indicates a requirement;
- "should" indicates a recommendation;
- "may" indicates a permission;
- "can" indicates a possibility or a capability.

Further details can be found in the ISO/IEC Directives, Part 2.

For the purposes of research, users are encouraged to share their views on this document and their priorities for changes to future editions. Click on the link below to take part in the online survey:

https://www.surveymonkey.com/r/D5PK2NV)/sist-en-iso-iec-17021-2-2019

Conformity assessment — Requirements for bodies providing audit and certification of management systems —

Part 2:

Competence requirements for auditing and certification of environmental management systems

1 Scope

This document specifies additional competence requirements for personnel involved in the audit and certification process for environmental management systems (EMS) and complements the existing requirements of ISO/IEC 17021-1.

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.

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

https://standards.iteh.ai/catalog/standards/sist/372e3a9c-d614-4e99-bce9-

3 Terms and definitions 64dc49/sist-en-iso-iec-17021-2-2019

For the purposes of this document, the terms and definitions given in ISO/IEC 17021-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at http://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

EMS technical area

environmental management system technical area

area characterized by commonalities of processes relevant to an environmental management system and its intended results

4 Generic competence requirements

The certification body shall define the competence requirements for each relevant EMS technical area and for each function in the certification activity. The certification body shall take into account all the requirements specified in <u>Clauses 5</u>, 6 and 7 that are relevant for the EMS technical areas, as defined by the certification body. See <u>Tables A.1</u> and <u>A.2</u> for a summary of the competence requirements for personnel involved in specific certification functions.

5 Competence requirements for EMS auditors

5.1 General

Each EMS auditor shall have a level of competence as defined by the certification body for the technical area concerned that includes the generic competencies described in ISO/IEC 17021-1, as well as the EMS knowledge described in 5.2 to 5.15.

5.2 Environmental terminology

Each EMS auditor shall have knowledge of environmental terms, definitions and concepts as used within an EMS.

NOTE Concepts include "intended outcomes", "environmental sustainability" and "sustainable development" (see ISO 14001:2015, Clause 1 and Clause A.3).

5.3 Environmental metrics

Each EMS auditor shall have knowledge of the quantification of environmental outputs applicable to the EMS and applicable compliance obligations.

EXAMPLES Direct, normalized, aggregated, indexed and weighted measurement, modelling, mass balance.

5.4 Environmental monitoring and measuring techniques

Each EMS auditor shall have knowledge of environmental monitoring and measuring techniques and analytical methods (including equipment and its calibration or verification and maintenance).

EXAMPLES Continuous, periodic and manual sampling, observations made during abnormal conditions.

5.5 Environmental aspects and impacts

Each EMS auditor shall have knowledge of techniques for the identification of environmental aspects and impacts and the determination of their environmental significance.

5.6 Life cycle perspective

Each EMS auditor shall have knowledge of life cycle concepts and how an organization can apply a life cycle perspective to its products and services.

NOTE The term "life cycle" is defined in ISO 14001:2015, 3.3.3. See also ISO 14001:2015, A.6.1.2.

5.7 Environmental performance evaluation

Each EMS auditor shall have knowledge of environmental performance evaluation methods, including indicators, sufficient to determine whether an organization's environmental performance is achieving the intended outcomes of an EMS.

NOTE ISO 14031 provides further information on environmental performance evaluation.

5.8 Compliance obligations

Each EMS auditor shall have knowledge to determine whether an organization has determined its EMS related compliance obligations, and evaluated fulfilment of its EMS related compliance obligations.

NOTE The term "compliance obligations" is defined in ISO 14001:2015, 3.2.9.