Irish Standard
I.S. EN ISO 14001:2004

Environmental management systems - Requirements with guidance for use (ISO 14001:2004)

I.S. EN ISO 14001:2004

Incorporating amendments/corrigenda issued since publication:
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Údarás um Chaighdeáin Náisiúnta na hÉireann

I.S. EN ISO 14001:2004/AC:2009

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 14001:2004/AC

July 2009
Juillet 2009
Juli 2009

ICS 13.020.10

English version
Version Française
Deutsche Fassung

Environmental management systems - Requirements with guidance for use (ISO 14001:2004/Cor 1:2009)

Systèmes de management environnemental - Exigences et lignes directrices pour son utilisation (ISO 14001:2004/Cor 1:2009)

Umweltmanagementsysteme - Anforderungen mit Anleitung zur Anwendung (ISO 14001:2004/Cor 1:2009)

This corrigendum becomes effective on 29 July 2009 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 29 juillet 2009 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 29.Juli 2009 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No.:EN ISO 14001:2004/AC:2009 D/E/F

Endorsement notice

The text of ISO 14001:2004/Cor.1:2009 has been approved by CEN as a European Corrigendum without any modification.

I.S. EN ISO 14001:2004/AC:2009
INTERNATIONAL STANDARD ISO 14001:2004
TECHNICAL CORRIGENDUM 1

Published 2009-07-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Environmental management systems — Requirements with guidance for use

TECHNICAL CORRIGENDUM 1

Systèmes de management environnemental — Exigences et lignes directrices pour son utilisation

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 14001:2004 was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 1, *Environmental management systems.*

Page iii, Table of contents

In the penultimate line, replace

“Correspondence between ISO 14001:2004 and ISO 9001:2000”

with

“Correspondence between ISO 14001:2004 and ISO 9001:2008”.

Page v, Introduction, sixth paragraph, last line

Replace “ISO 9001:2000” with “ISO 9001:2008”.

ICS 13.020.10 **Ref. No. ISO 14001:2004/Cor.1:2009(E)**

Published in Switzerland

Page 19, Annex B, Table B.1

Replace the entire table with the following:

Table B.1 — Correspondence between ISO 14001:2004 and ISO 9001:2008

ISO 14001:2004		ISO 9001:2008	
Introduction			Introduction (title only)
		0.1	General
		0.2	Process approach
		0.3	Relationship with ISO 9004
		0.4	Compatibility with other management systems
Scope	1	1	Scope (title only)
		1.1	General
		1.2	Application
Normative references	2	2	Normative references
Terms and definitions	3	3	Terms and definitions
Environmental management system requirements (title only)	4	4	Quality management system (title only)
General requirements	4.1	4.1	General requirements
Environmental policy	4.2	5.1	Management commitment
		5.3	Quality policy
		8.5.1	Continual improvement
Planning (title only)	4.3	5.4	Planning (title only)
Environmental aspects	4.3.1	5.2	Customer focus
		7.2.1	Determination of requirements related to the product
		7.2.2	Review of requirements related to the product
Legal and other requirements	4.3.2	5.2	Customer focus
		7.2.1	Determination of requirements related to the product
Objectives, targets and programme(s)	4.3.3	5.4.1	Quality objectives
		5.4.2	Quality management system planning
		8.5.1	Continual improvement
Implementation and operation (title only)	4.4	7	Product realization (title only)
Resources, roles, responsibility and authority	4.4.1	5.1	Management commitment
		5.5.1	Responsibility and authority
		5.5.2	Management representative
		6.1	Provision of resources
		6.3	Infrastructure

Table B.1 — Correspondence between ISO 14001:2004 and ISO 9001:2008 (*continued*)

ISO 14001:2004		ISO 9001:2008	
Competence, training and awareness	4.4.2	6.2.1	(Human resources) General
		6.2.2	Competence, training and awareness
Communication	4.4.3	5.5.3	Internal communication
		7.2.3	Customer communication
Documentation	4.4.4	4.2.1	(Documentation requirements) General
Control of documents	4.4.5	4.2.3	Control of documents
Operational control	4.4.6	7.1	Planning of product realization
		7.2.1	Determination of requirements related to the product
		7.2.2	Review of requirements related to the product
		7.3.1	Design and development planning
		7.3.2	Design and development inputs
		7.3.3	Design and development outputs
		7.3.4	Design and development review
		7.3.5	Design and development verification
		7.3.6	Design and development validation
		7.3.7	Control of design and development changes
		7.4.1	Purchasing process
		7.4.2	Purchasing information
		7.4.3	Verification of purchased product
		7.5.1	Control of production and service provision
		7.5.2	Validation of processes for production and service provision
		7.5.5	Preservation of product
Emergency preparedness and response	4.4.7	8.3	Control of nonconforming product
Checking (title only)	4.5	8	Measurement, analysis and improvement (title only)
Monitoring and measurement	4.5.1	7.6	Control of monitoring and measuring equipment
		8.1	(Measurement, analysis and improvement) General
		8.2.3	Monitoring and measurement of processes
		8.2.4	Monitoring and measurement of product
		8.4	Analysis of data
Evaluation of compliance	4.5.2	8.2.3	Monitoring and measurement of processes
		8.2.4	Monitoring and measurement of product

Table B.1 — Correspondence between ISO 14001:2004 and ISO 9001:2008 (*continued*)

ISO 14001:2004		ISO 9001:2008	
Nonconformity, corrective action and preventive action	4.5.3	8.3	Control of nonconforming product
		8.4	Analysis of data
		8.5.2	Corrective action
		8.5.3	Preventive action
Control of records	4.5.4	4.2.4	Control of records
Internal audit	4.5.5	8.2.2	Internal audit
Management review	4.6	5.1	Management commitment
		5.6	Management review (title only)
		5.6.1	General
		5.6.2	Review input
		5.6.3	Review output
		8.5.1	Continual improvement

Page 21, Annex B, Table B.2

Replace the entire table with the following:

Table B.2 — Correspondence between ISO 9001:2008 and ISO 14001:2004

ISO 9001:2008		ISO 14001:2004	
Introduction (title only)			Introduction
General	0.1		
Process approach	0.2		
Relationship with ISO 9004	0.3		
Compatibility with other management systems	0.4		
Scope (title only)	1	1	Scope
General	1.1		
Application	1.2		
Normative references	2	2	Normative references
Terms and definitions	3	3	Terms and definitions
Quality management system (title only)	4	4	Environmental management system requirements (title only)
General requirements	4.1	4.1	General requirements
Documentation requirements (title only)	4.2		
General	4.2.1	4.4.4	Documentation
Quality manual	4.2.2		
Control of documents	4.2.3	4.4.5	Control of documents
Control of records	4.2.4	4.5.4	Control of records

Table B.2 — Correspondence between ISO 9001:2008 and ISO 14001:2004 (*continued*)

ISO 9001:2008		ISO 14001:2004	
Management responsibility (title only)	5		
Management commitment	5.1	4.2	Environmental policy
		4.4.1	Resources, roles, responsibility and authority
		4.6	Management review
Customer focus	5.2	4.3.1	Environmental aspects
		4.3.2	Legal and other requirements
Quality policy	5.3	4.2	Environmental policy
Planning (title only)	5.4	4.3	Planning (title only)
Quality objectives	5.4.1	4.3.3	Objectives, targets and programme(s)
Quality management system planning	5.4.2	4.3.3	Objectives, targets and programme(s)
Responsibility, authority and communication (title only)	5.5		
Responsibility and authority	5.5.1	4.4.1	Resources, roles, responsibility and authority
Management representative	5.5.2	4.4.1	Resources, roles, responsibility and authority
Internal communication	5.5.3	4.4.3	Communication
Management review (title only)	5.6	4.6	Management review
General	5.6.1	4.6	Management review
Review input	5.6.2	4.6	Management review
Review output	5.6.3	4.6	Management review
Resource management (title only)	6		
Provision of resources	6.1	4.4.1	Resources, roles, responsibility and authority
Human resources (title only)	6.2		
General	6.2.1	4.4.2	Competence, training and awareness
Competence, training and awareness	6.2.2	4.4.2	Competence, training and awareness
Infrastructure	6.3	4.4.1	Resources, roles, responsibility and authority
Work environment	6.4		
Product realization (title only)	7	4.4	Implementation and operation (title only)
Planning of product realization	7.1	4.4.6	Operational control
Customer-related processes (title only)	7.2		
Determination of requirements related to the product	7.2.1	4.3.1	Environmental aspects
		4.3.2	Legal and other requirements
		4.4.6	Operational control
Review of requirements related to the product	7.2.2	4.3.1	Environmental aspects
		4.4.6	Operational control
Customer communication	7.2.3	4.4.3	Communication

Table B.2 — Correspondence between ISO 9001:2008 and ISO 14001:2004 (*continued*)

ISO 9001:2008		ISO 14001:2004	
Design and development (title only)	7.3		
Design and development planning	7.3.1	4.4.6	Operational control
Design and development inputs	7.3.2	4.4.6	Operational control
Design and development outputs	7.3.3	4.4.6	Operational control
Design and development review	7.3.4	4.4.6	Operational control
Design and development verification	7.3.5	4.4.6	Operational control
Design and development validation	7.3.6	4.4.6	Operational control
Control of design and development changes	7.3.7	4.4.6	Operational control
Purchasing (title only)	7.4		
Purchasing process	7.4.1	4.4.6	Operational control
Purchasing information	7.4.2	4.4.6	Operational control
Verification of purchased product	7.4.3	4.4.6	Operational control
Production and service provision (title only)	7.5		
Control of production and service provision	7.5.1	4.4.6	Operational control
Validation of processes for production and service provision	7.5.2	4.4.6	Operational control
Identification and traceability	7.5.3		
Customer property	7.5.4		
Preservation of product	7.5.5	4.4.6	Operational control
Control of monitoring and measuring equipment	7.6	4.5.1	Monitoring and measurement
Measurement, analysis and improvement (title only)	8	4.5	Checking (title only)
General	8.1	4.5.1	Monitoring and measurement
Monitoring and measurement (title only)	8.2		
Customer satisfaction	8.2.1		
Internal audit	8.2.2	4.5.5	Internal audit
Monitoring and measurement of processes	8.2.3	4.5.1 4.5.2	Monitoring and measurement Evaluation of compliance
Monitoring and measurement of product	8.2.4	4.5.1 4.5.2	Monitoring and measurement Evaluation of compliance
Control of nonconforming product	8.3	4.4.7 4.5.3	Emergency preparedness and response Nonconformity, corrective action and preventive action
Analysis of data	8.4	4.5.1 4.5.3	Monitoring and measurement Nonconformity, corrective action and preventive action

Table B.2 — Correspondence between ISO 9001:2008 and ISO 14001:2004 (*continued*)

ISO 9001:2008		ISO 14001:2004	
Improvement (title only)	8.5		
Continual improvement	8.5.1	4.2 4.3.3 4.6	Environmental policy Objectives, targets and programme(s) Management review
Corrective action	8.5.2	4.5.3	Nonconformity, corrective action and preventive action
Preventive action	8.5.3	4.5.3	Nonconformity, corrective action and preventive action

Page 23, Bibliography

Replace

“[2] ISO 9001:2000, *Quality management systems — Requirements*”

with

“[2] ISO 9001:2008, *Quality management systems — Requirements*”.

Irish Standard
I.S. EN ISO 14001:2004

Environmental management systems - Requirements with guidance for use (ISO 14001:2004)

I.S. EN ISO 14001:2004

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 14001

November 2004

ICS 13.020.10

Supersedes EN ISO 14001:1996

English version

Environmental management systems - Requirements with guidance for use (ISO 14001:2004)

Systèmes de management environnemental - Exigences et lignes directrices pour son utilisation (ISO 14001:2004)

Umweltmanagementsysteme - Anforderungen mit Anleitung zur Anwendung (ISO 14001:2004)

This European Standard was approved by CEN on 13 November 2004.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Ref. No. EN ISO 14001:2004: E

Foreword

This document (EN ISO 14001:2004) has been prepared by Technical Committee ISO/TC 207 "Environmental management" in collaboration with CMC.

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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN ISO 14001:1996.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 14001:2004 has been approved by CEN as EN ISO 14001:2004 without any modifications.

INTERNATIONAL STANDARD

ISO 14001

Second edition
2004-11-15

Environmental management systems — Requirements with guidance for use

Systèmes de management environnemental — Exigences et lignes directrices pour son utilisation

Reference number
ISO 14001:2004(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 14001 was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 1, *Environmental management systems*.

This second edition cancels and replaces the first edition (ISO 14001:1996), which has been technically revised.

Introduction

Organizations of all kinds are increasingly concerned with achieving and demonstrating sound environmental performance by controlling the impacts of their activities, products and services on the environment, consistent with their environmental policy and objectives. They do so in the context of increasingly stringent legislation, the development of economic policies and other measures that foster environmental protection, and increased concern expressed by interested parties about environmental matters and sustainable development.

Many organizations have undertaken environmental “reviews” or “audits” to assess their environmental performance. On their own, however, these “reviews” and “audits” may not be sufficient to provide an organization with the assurance that its performance not only meets, but will continue to meet, its legal and policy requirements. To be effective, they need to be conducted within a structured management system that is integrated within the organization.

International Standards covering environmental management are intended to provide organizations with the elements of an effective environmental management system (EMS) that can be integrated with other management requirements and help organizations achieve environmental and economic goals. These standards, like other International Standards, are not intended to be used to create non-tariff trade barriers or to increase or change an organization's legal obligations.

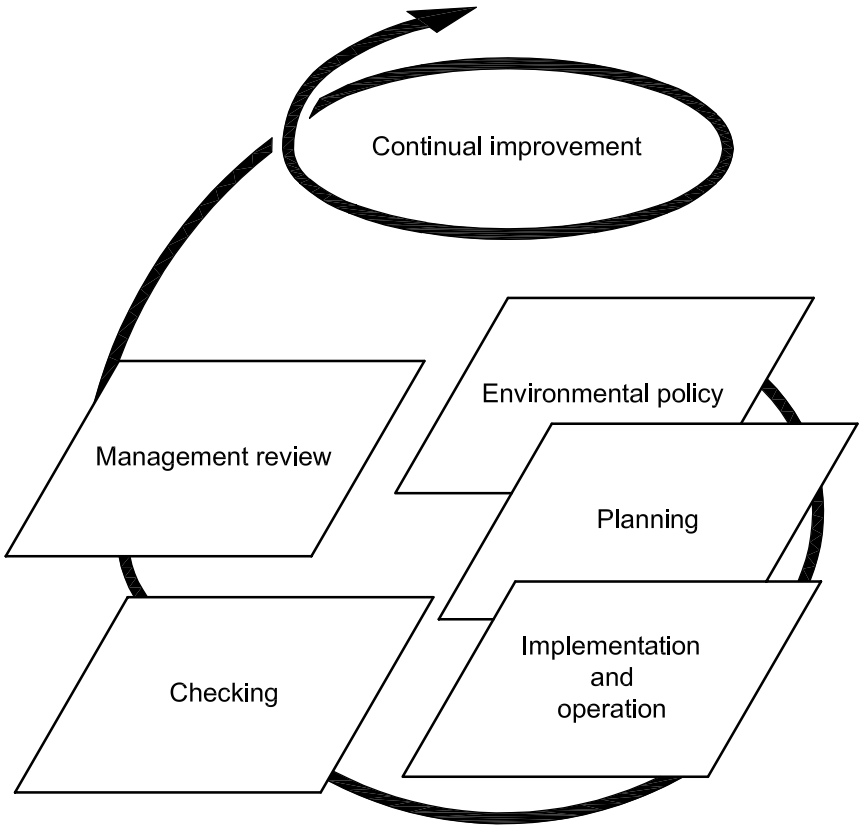
This International Standard specifies requirements for an environmental management system to enable an organization to develop and implement a policy and objectives which take into account legal requirements and information about significant environmental aspects. It is intended to apply to all types and sizes of organization and to accommodate diverse geographical, cultural and social conditions. The basis of the approach is shown in Figure 1. The success of the system depends on commitment from all levels and functions of the organization, and especially from top management. A system of this kind enables an organization to develop an environmental policy, establish objectives and processes to achieve the policy commitments, take action as needed to improve its performance and demonstrate the conformity of the system to the requirements of this International Standard. The overall aim of this International Standard is to support environmental protection and prevention of pollution in balance with socio-economic needs. It should be noted that many of the requirements can be addressed concurrently or revisited at any time.

The second edition of this International Standard is focused on clarification of the first edition, and has taken due consideration of the provisions of ISO 9001 to enhance the compatibility of the two standards for the benefit of the user community.

For ease of use, the subclause numbers in Clause 4 of the body of this International Standard and in Annex A have been related. For example, 4.3.3 and A.3.3 both deal with objectives, targets and programme(s), and 4.5.5 and A.5.5 both deal with internal audit. In addition, Annex B identifies broad technical correspondences between ISO 14001:2004 and ISO 9001:2000 and *vice versa*.

There is an important distinction between this International Standard, which describes the requirements for an organization's environmental management system and can be used for certification/registration and/or self-declaration of an organization's environmental management system, and a non-certifiable guideline intended to provide generic assistance to an organization for establishing, implementing or improving an environmental management system. Environmental management encompasses a full range of issues, including those with strategic and competitive implications. Demonstration of successful implementation of this International Standard can be used by an organization to assure interested parties that an appropriate environmental management system is in place.

Guidance on supporting environmental management techniques is contained in other International Standards, particularly those on environmental management in the documents established by ISO/TC 207. Any reference to other International Standards is for information only.



NOTE This International Standard is based on the methodology known as Plan-Do-Check-Act (PDCA). PDCA can be briefly described as follows.

— Plan: establish the objectives and processes necessary to deliver results in accordance with the organization's environmental policy.

— Do: implement the processes.

— Check: monitor and measure processes against environmental policy, objectives, targets, legal and other requirements, and report the results.

— Act: take actions to continually improve performance of the environmental management system.

Many organizations manage their operations via the application of a system of processes and their interactions, which can be referred to as the “process approach”. ISO 9001 promotes the use of the process approach. Since PDCA can be applied to all processes, the two methodologies are considered to be compatible.

Figure 1 — Environmental management system model for this International Standard

This International Standard contains only those requirements that can be objectively audited. Those organizations requiring more general guidance on a broad range of environmental management system issues are referred to ISO 14004.

This International Standard does not establish absolute requirements for environmental performance beyond the commitments, in the environmental policy, to comply with applicable legal requirements and with other requirements to which the organization subscribes, to prevention of pollution and to continual improvement. Thus, two organizations carrying out similar operations but having different environmental performance can both conform to its requirements.

The adoption and implementation of a range of environmental management techniques in a systematic manner can contribute to optimal outcomes for all interested parties. However, adoption of this International Standard will not in itself guarantee optimal environmental outcomes. In order to achieve environmental objectives, the environmental management system can encourage organizations to consider implementation of the best

available techniques, where appropriate and where economically viable, and fully take into account the cost-effectiveness of such techniques.

This International Standard does not include requirements specific to other management systems, such as those for quality, occupational health and safety, financial or risk management, though its elements can be aligned or integrated with those of other management systems. It is possible for an organization to adapt its existing management system(s) in order to establish an environmental management system that conforms to the requirements of this International Standard. It is pointed out, however, that the application of various elements of the management system might differ depending on the intended purpose and the interested parties involved.

The level of detail and complexity of the environmental management system, the extent of documentation and the resources devoted to it depend on a number of factors, such as the scope of the system, the size of an organization and the nature of its activities, products and services. This may be the case in particular for small and medium-sized enterprises.