



**SLOVENSKI STANDARD**  
**oSIST prEN ISO 14001:2014**  
**01-oktober-2014**

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**Sistemi ravnanja z okoljem - Zahteve z navodili za uporabo (ISO/DIS 14001)**

Environmental management systems - Requirements with guidance for use (ISO/DIS 14001)

Umweltmanagementsysteme - Anforderungen mit Anleitung zur Anwendung (ISO/DID 14001)

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# DRAFT INTERNATIONAL STANDARD

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## Environmental management systems — Requirements with guidance for use

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

ICS: 13.020.10

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### ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

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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.

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 ISO documents 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](http://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 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](http://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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#). The committee responsible for this document is Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 1, *Environmental management systems*.

This third edition will cancel and replace the second edition (ISO 14001:2004), which has been technically revised.

**NOTE TO THIS TEXT (which will not be included in the published International Standard):**

This text has been prepared using the a high level structure, identical core text, and common terms with core definitions, designed to benefit users implementing multiple ISO management system standards, as set out in Annex SL, Appendix 2 of the ISO/IEC Directives, Part 1, Consolidated ISO Supplement, 2014.

The text of Annex SL is shown in the main body of the text (Clauses 1 to 10) by the use of black font. All other text is shown in blue font. This is only to facilitate analysis and will not be incorporated in the final version of ISO 14001.

**ISO/DIS 14001:2014****2 0 Introduction****3 0.1 Background**

4 Achieving a balance between environmental, social and economic sub-systems within the global system is  
 5 considered essential in order to meet the needs of the present without compromising the ability of future  
 6 generations to meet their needs. This concept of the 'three pillars' of sustainability is the goal of sustainable  
 7 development.

8 Societal expectations for sustainable development, transparency and accountability have evolved within the  
 9 context of increasingly stringent legislation, growing pressures on the environment from pollution, and the  
 10 inefficient use of resources, management of waste, climate change and degradation of eco-systems and  
 11 biodiversity.

12 This has led organizations to adopt a systematic approach to environmental management by implementing  
 13 environmental management systems with the aim to contribute to the 'environmental pillar' of sustainability.

**14 0.2 Aim of an environmental management system**

15 The purpose of this International Standard is to provide organizations with a systematic framework to protect  
 16 the environment and respond to changing environmental conditions in balance with socio-economic needs. It  
 17 does so by specifying requirements for an environmental management system that enables an organization to  
 18 enhance environmental performance by:

- 19 — developing and implementing an environmental policy and objectives;
- 20 — identifying aspects of its activities, products and services that can result in significant environmental  
 21 impacts;
- 22 — establishing systematic processes which consider its context, and take into account its significant  
 23 environmental aspects, risk associated with threats and opportunities and its compliance obligations;
- 24 — increasing awareness of its relationship with the environment;
- 25 — establishing operational controls to manage its significant environmental aspects and compliance  
 26 obligations;
- 27 — evaluating environmental performance and taking actions, as necessary.

28 A systematic approach to environmental management can provide top management with information to build  
 29 success over the long term and create options for contributing to sustainable development by:

- 30 — protecting the environment by preventing or reducing adverse impacts on the environment;
- 31 — mitigating the potential adverse impact of environmental conditions on the organization;
- 32 — assisting in conforming to compliance obligations;
- 33 — enhancing environmental performance;
- 34 — controlling or influencing the way the organization's products and services are designed, manufactured,  
 35 distributed, consumed and disposed by using a life cycle perspective that can prevent environmental  
 36 burdens from being inadvertently shifted elsewhere within the cycle;
- 37 — achieving financial and operational benefits that can result from implementing environmentally sound  
 38 alternatives that strengthen the organization's market position;



39 — communicating environmental information to relevant interested parties.

### 40 **0.3 Success factors**

41 The success of an environmental management system depends on commitment from all levels and functions  
42 of the organization, led by top management. They can leverage opportunities to reduce or eliminate  
43 environmental impacts, particularly those with strategic and competitive implications. Top management can  
44 effectively address these opportunities by integrating environmental management into its business processes,  
45 strategy and decision making, aligning them with other business priorities, and incorporating environmental  
46 governance into its overall management system. Demonstration of successful implementation of this  
47 International Standard can be used to assure interested parties that an appropriate environmental  
48 management system is in place.

49 Adoption of this International Standard, however, will not in itself guarantee optimal environmental outcomes.  
50 Two organizations can carry out similar activities but may have different compliance obligations,  
51 environmental policy commitments, environmental technologies in use and environmental performance goals,  
52 yet both can conform to the requirements of this International Standard.

53 The level of detail and complexity, the extent of documentation and the resources needed for an  
54 environmental management system will depend on a number of factors, such as the organization's context, its  
55 size and location, its compliance obligations, the scope of the system, and the nature of its activities, products  
56 and services, including its environmental aspects and potential impacts.

### 57 **0.4 Plan, Do, Check and Act approach**

58 The basis for the approach underlying an environmental management system is founded on the Shewhart  
59 concept of Plan, Do, Check and Act (PDCA) made popular by Deming. The PDCA model demonstrates an  
60 iterative process used by organizations to achieve continual improvement. It can be applied to a management  
61 system and to each of its individual elements. It can be briefly described as follows.

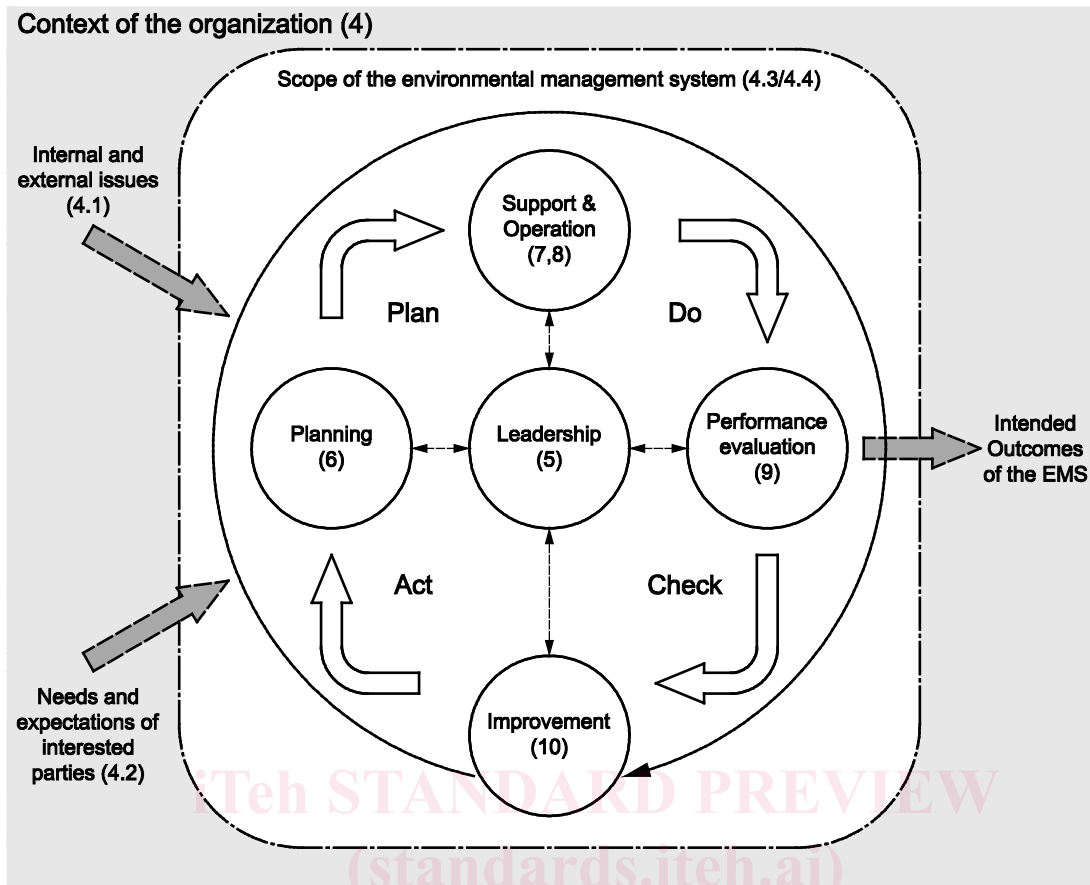
62 — Plan: establish objectives and processes (necessary) to deliver results in accordance with the  
63 organization's policy.

64 — Do: implement the processes as planned.

65 — Check: monitor and measure processes against the policy, including its commitments, objectives and  
66 operational controls, and report the results.

67 — Act: take actions to continually improve.

68 This International Standard incorporates the PDCA concept into a new framework, as shown in Figure 1.



69

70 **Figure 1 — Environmental management system model for this International Standard**71 **0.5 Contents of this International Standard**

72 This International Standard includes revisions to meet environmental challenges facing organizations and  
 73 provide value to both new and existing users. It also includes revisions to conform to ISO's requirements for  
 74 management system standards<sup>1)</sup>. These requirements include a high level structure, identical core text, and  
 75 common terms with core definitions, designed to benefit users implementing multiple ISO management  
 76 system standards.

77 The body of this International Standard, Clauses 1 through 10, contains the requirements used to assess  
 78 conformity. Annex A provides informative explanations to prevent misinterpretation of ISO/DIS 14001:2014  
 79 requirements. Annex B identifies broad technical correspondence between the previous edition of this  
 80 International Standard (ISO 14001:2004) and this edition. Implementation guidance on environmental  
 81 management systems is included in ISO 14004<sup>2)</sup>.

1) See the ISO/IEC Directives, Part 1, Consolidated ISO Supplement, Procedures specific to ISO, Fifth edition, 2014, Annex SL, Appendices 2 and 3.

2) Revision of ISO 14004 is ongoing.

## 82 Environmental management systems — Requirements with 83 guidance for use

### 84 1 Scope

85 This International Standard specifies the requirements of an environmental management system for  
86 organizations seeking to establish, implement, maintain and continually improve a framework with the aim to  
87 manage its environmental responsibilities in a manner that contributes to the 'environmental pillar' of  
88 sustainability.

89 The intended outcomes of an environmental management system provide value for the environment, the  
90 organization and its interested parties. Consistent with the organization's environmental policy, the intended  
91 outcomes of an environmental management system include:

92 — enhancement of environmental performance;

93 — conforming to compliance obligations;

94 — fulfilment of environmental objectives.

95 This International Standard is applicable to any organization regardless of size, type and nature and applies to  
96 the environmental aspects that the organization determines it can either control or can influence considering a  
97 life cycle perspective. It does not state specific environmental performance criteria, nor does it increase or  
98 change an organization's legal obligations.

99 This International Standard can be used in whole or in part to improve environmental management, but all the  
100 requirements are intended to be incorporated into an environmental management system and fulfilled, without  
101 exclusion, if an organization claims it complies with this International Standard.

### 102 2 Normative references

103 No normative references are cited. This clause is included to maintain clause numbering alignment with other  
104 ISO management system standards.

### 105 3 Terms and definitions

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

#### 107 3.1

##### 108 organization

109 person or group of people that has its own functions with responsibilities, authorities and relationships to  
110 achieve its *objectives* (3.16)

111 Note 1 to entry: The concept of organization includes, but is not limited to sole-trader, company, corporation, firm,  
112 enterprise, authority, partnership, charity or institution, or part or combination thereof, whether incorporated or not, public  
113 or private.

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- 114 **3.2**  
 115 **top management**  
 116 person or group of people who directs and controls an *organization* (3.1) at the highest level
- 117 Note 1 to entry: Top management has the power to delegate authority and provide resources within the organization.
- 118 Note 2 to entry: If the scope of the *management system* (3.3) covers only part of an organization, then top  
 119 management refers to those who direct and control that part of the organization.
- 120 **3.3**  
 121 **management system**  
 122 set of interrelated or interacting elements of an *organization* (3.1) to establish policies and *objectives* (3.16)  
 123 and *processes* (3.26) to achieve those objectives
- 124 Note 1 to entry: A management system can address a single discipline or several disciplines (e.g. *quality*,  
 125 *environment*, *occupational health and safety*).
- 126 Note 2 to entry: The system elements include the organization's structure, roles and responsibilities, planning and  
 127 operation, *performance evaluation and improvement*.
- 128 Note 3 to entry: The scope of a management system may include the whole of the organization, specific and identified  
 129 functions of the organization, specific and identified sections of the organization, or one or more functions across a group  
 130 of organizations.
- 131 **3.4**  
 132 **environmental management system**  
 133 part of the *management system* (3.3) used to manage *environmental aspects* (3.9), conform to *compliance*  
 134 *obligations* (3.22), and address *risk* (3.18) associated with threats and opportunities
- 135 **3.5**  
 136 **interested party**  
 137 person or *organization* (3.1) that can affect, be affected by, or perceive itself to be affected by a decision or  
 138 activity
- 139 Note 1 to entry: Interested parties can include person(s) and groups concerned with or affected by the *environmental*  
 140 *performance* (3.13) of an organization.
- 141 Note 2 to entry: To "perceive itself to be affected" means the perception has been made known to the organization.
- 142 Note 3 to entry: Interested parties can include customers, communities, suppliers, regulators, nongovernment  
 143 organizations, investors, employees.
- 144 **3.6**  
 145 **environmental policy**  
 146 intentions and direction of an *organization* (3.1) as formally expressed by its *top management* (3.2) related to  
 147 *environmental performance* (3.13)
- 148 **3.7**  
 149 **documented information**  
 150 information required to be controlled and maintained by an *organization* (3.1) and the medium on which it is  
 151 contained
- 152 Note 1 to entry: Documented information can be in any format and media, and from any source.
- 153 Note 2 to entry: Documented information can refer to:
- 154 — the *environmental management system* (3.4), including related *processes* (3.26);
- 155 — information created in order for the organization to operate (may also be referred to as documentation);

156 — evidence of results achieved (may also be referred to as records).

### 157 3.8

#### 158 environment

159 surroundings in which an *organization* (3.1) operates including air, water, land, natural resources, flora, fauna,  
160 humans and their interrelations

161 Note 1 to entry: Surroundings in this context can extend from within an organization to the local, regional and global  
162 system.

163 Note 2 to entry: Surroundings may be described in terms of biodiversity, ecosystems, climate or other characteristics.

### 164 3.9

#### 165 environmental aspect

166 element of an *organization's* (3.1) activities or products or services that interacts or can interact with the  
167 *environment* (3.8)

168 Note 1 to entry: An environmental aspect can cause (an) *environmental impact(s)* (3.10). A significant environmental  
169 aspect is one that has or can have a significant environmental impact.

170 Note 2 to entry: Significant environmental aspects are determined by the organization applying one or more criteria.

### 171 3.10

#### 172 environmental impact

173 change to the *environment* (3.8), whether adverse or beneficial, wholly or partially resulting from an  
174 *organization's* (3.1) *environmental aspects* (3.9)

### 175 3.11

#### 176 environmental condition

177 state or characteristic of the *environment* (3.8) as determined at a certain point of time

### 178 3.12

#### 179 performance

180 measurable result

181 Note 1 to entry: Performance can relate either to quantitative or qualitative findings.

182 Note 2 to entry: Performance can relate to the management of activities, *processes* (3.26), products (including  
183 services), systems or *organizations* (3.1).

### 184 3.13

#### 185 environmental performance

186 *performance* (3.12) related to the management of *environmental aspects* (3.9)

187 Note 1 to entry: In the context of *environmental management systems* (3.4), results can be measured against the  
188 organization's *environmental policy* (3.6), *environmental objectives* (3.17) or other criterion, using indicators.

### 189 3.14

#### 190 prevention of pollution

191 use of *processes* (3.26), practices, techniques, materials, products, services or energy to avoid, reduce or  
192 control (separately or in combination) the creation, emission or discharge of any type of pollutant or waste, in  
193 order to reduce adverse *environmental impacts* (3.10)

194 Note 1 to entry: Prevention of pollution can include source reduction or elimination, process, product or service  
195 changes, efficient use of resources, material and energy substitution, reuse, recovery, recycling, reclamation and  
196 treatment.