

Newsletter February, 2025



ICR



Hot Issue

1. Notice of ISO 14001 revision
2. Machinery Regulation(EU) 2023/1230
3. KS X 3123 revised test method for conformity evaluation of wireless facilities





Notice of ISO 14001 revision

■ What is the ISO 14001(EMS) standard?

ISO 14001 is an international standard that defines the requirements for systematically managing environmental impacts and improving environmental performance continuously.

The standard provides management system requirements that enable organizations to:

- Comply with environmental laws and regulations.
- Identify and manage environmental risks and opportunities.
- Optimize resource use and minimize environmental impact.
- Establish a sustainable business operation framework.

■ Objectives of the ISO 14001

1) Environmental Protection

Minimize the environmental impacts caused by the organization's activities, products, and services.

2) Regulatory Compliance

Comply with local and international environmental laws and regulatory requirements.

3) Improvement of Environmental Performance

Provide a systematic approach to continuously improve environmental performance

Notice of ISO 14001 revision

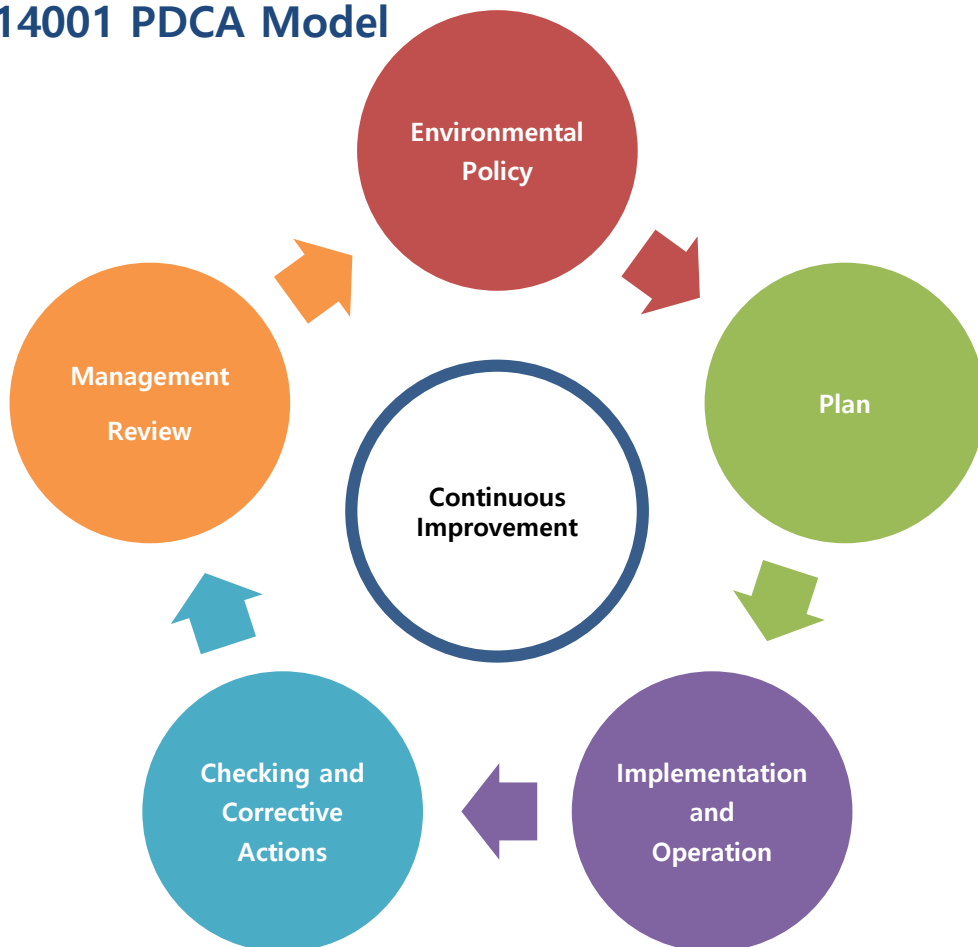
4) Strengthening organizational sustainability

Promote development through energy conservation, waste management, and resource optimization.

5) Building stakeholder trust

Enhance transparency and accountability in environmental management to build trust with customers, investors, communities, and other stakeholders.

■ ISO 14001 PDCA Model





Notice of ISO 14001 revision

■ Reasons why ISO 14001 certification is necessary

1) Reduction of legal risks

Prevents risks related to fines and lawsuits caused by non-compliance with environmental regulations.

2) Enhanced market competitiveness

- Provides trust to customers through environmental management certification and secures a competitive edge.
- Meets global business requirements as it is an internationally recognized standard.
- Builds a positive brand image as an environmentally responsible organization.

3) Cost reduction

Reduces operational costs through resource efficiency and energy savings.

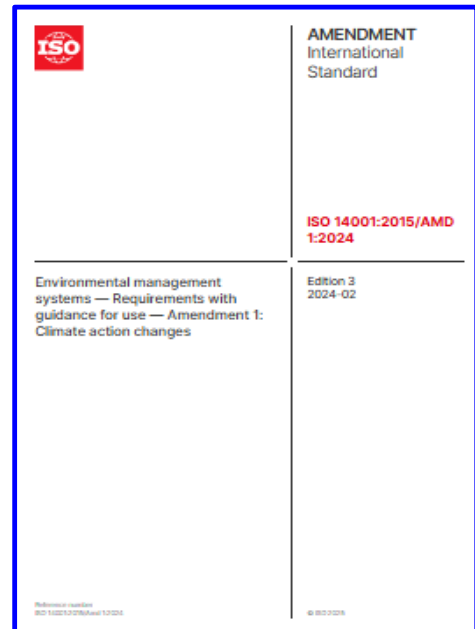
4) Minimization of environmental impact

Systematically reduces environmental impacts across the entire lifecycle of the organization's products and services.

Notice of ISO 14001 revision

■ ISO 14001:2015 Amd 1(2024.02) revision

On February 23, 2024, ISO and IAF published an amended standard in response to the London Declaration. This revision requires organizations to address activities related to climate change within their environmental management systems (EMS), ensuring alignment with the principles of the ISO 14001 standard.



The 2024 revision of the ISO 14001 standard marks a significant milestone, reflecting critical changes within the environmental context. Key drivers for this revision include climate change, resource scarcity, the adoption of renewable energy, and the transition to a circular economy.



Notice of ISO 14001 revision

■ Amendments

- ❖ **Clause 4.1** Add the following sentence at the end of the subclause:
The organization shall determine whether climate change is a relevant issue.
- ❖ **Clause 4.2** Add the following note at the end of the subclause:
NOTE Relevant interested parties can have requirements related to climate change.

■ ISO 14001:2015 Amd 2 (2025 Expected) revision update

According to ISO/TC 207 SC 1, Amendment 2 (Amd 2) of the same standard is currently undergoing a "minor revision" and a new version is being prepared with the target publication date set for 2025. Most changes are expected to be confined to Annex A (Informative) of the standard.

■ Amendment information

- Status: Under development
- Stage: DIS registered [40.00]

Based on the current progress, the final publication of the revised ISO 14001 standard is anticipated between late 2025 and early 2026.



Notice of ISO 14001 revision

■ Key anticipated changes

1) Strengthening climate change response

Organizations shall determine whether climate change is a relevant issue within the context of the organization and recognize that the needs and expectations of interested parties may include climate change-related requirements.

2) Emphasis on reporting transparency

The importance of reporting environmental performance will be emphasized, highlighting the role of transparent communication in building trust with interested parties.

3) Opportunity-based approach

Organizations will be encouraged to identify not only risks but also opportunities related to environmental aspects, with a focus on strategies to improve environmental performance.



Notice of ISO 14001 revision

■ Preparation for organizations

- 1) Organizations must identify the requirements of the new standard and plan for their integration into their Environmental Management Systems (EMS).
- 2) It is essential to provide training to relevant personnel to ensure a thorough understanding of the changes and to implement the necessary actions effectively.

■ **The revision of ISO 14001** will play a vital role in helping organizations respond effectively to environmental changes and achieve sustainable development.

At **ICR**, we remain dedicated to keeping our clients informed promptly about any required updates to specific standards, including the ISO 14001 revisions shared today.

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Machinery Regulation(EU) 2023/1230



■ Machinery Regulation(EU) 2023/1230 revision

News of the revision from Machinery Directive 2006/42/EC to Regulation (EU) 2023/1230 has been published in the EU Official Journal.

The existing **Directive** has been changed to **Regulation** and has been revised to a stricter level as it has become legal.

With the change from Machinery Directive 2006 to Machinery Regulation 2023, more has been added to the development of technology.

▶ **When to apply:** mandatory from **January 14, 2027**.

Machinery Regulation(EU) 2023/1230



■ Major changes

- 1) **Regulation Annex I** provides information on previous Directive Annex IV (High Risk Machine).
- 2) Instruction and EU DoC have been changed to accommodate paper and **digital formats as well**.
- 3) Add content about **software source code** (programming language) in addition to instrument/electricity
- 4) Add **Module** Distinguishing for Test Items
 - Module A : Internal Production Control
 - Module B : EU-Type Examination
 - Module C : Conformity to Type Based on Internal Production Control
 - Module G : Conformity Based on Unit Verification
 - Module H : Conformity Based on Full Quality Assurance

- **ICR** can be tested by the Industrial Safety Center Mechanical Safety Team according to **the applicable Machinery Regulation(EU) 2023/1230** and can provide the best technical service.

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KS X 3123 revised test method for conformity evaluation of wireless facilities




■ Revision of the KS X 3123

On December 27, 2024, the radio equipment conformity assessment test method, KS X 3123, has been revised.

■ Major revisions

1) Revision of environmental conditions of mobile communication wireless facilities, etc

▶ Existing vibration, impact, continuous operation, temperature, and humidity conditions have been revised only by temperature.

Types of equipment	environmental conditions		Types of equipment	environmental conditions
Equipment for LTE mobile communication wireless facilities	<ul style="list-style-type: none">• Vibration[ⓐ]• Shock[ⓐ]• continuous motion[ⓐ]• Temperature[ⓐ]• Humidity[ⓐ]		Equipment for LTE mobile communication wireless facilities	<ul style="list-style-type: none">• Temperature[ⓐ]

KS X 3123 revised test method for conformity evaluation of wireless facilities



2) Add Multiple RU (WiFi7) test methods

► Added multiple RU classification table.

(b) Multiple resource unit

Channel bandwidth	RU assignment (location)	RU size and combination (number of subcarriers)										
		52 +26	106 +26	484 +242	996 +484	996+484 +242	2×996 +484	3×996	3×996 +484			
20 MHz	Lowest	○	○									
	Top	○	○									
40 MHz	Lowest	○	○									
	Top	○	○									
80 MHz	Lowest	○	○							○		
	Top	○	○							○		
160 MHz	Lowest	○	○							○	○	○
	Top	○	○							○	○	○
320 MHz	Lowest	○	○	○	○	○	○	○				
	Top	○	○	○	○	○	○	○				

KS X 3123 revised test method for conformity evaluation of wireless facilities



► Added multiple RU test methods

< Table G.2 >

Operating frequency (channel)	RU size (number of subcarriers)	RU assignment (location)
Lowest	Single RU : Minimum Multiple RU : 52+26 RU (unsupported, minimum operable size within measurement channel bandwidth)	Lowest
Middle	RU size with maximum antenna power density	Assign RU with maximum antenna power density
Top	Single RU : Minimum Multiple RU : 52+26 RU (unsupported, minimum operable size within measurement channel bandwidth)	Top

< Table G.3 >

Operating frequency (channel)	RU size (number of subcarriers)	RU assignment (location)
Lowest	Single RU : Minimum Multiple RU : 106+26 RU (unsupported, minimum operable size within measurement channel bandwidth)	Lowest
Top	Single RU : Minimum Multiple RU : 106+26 RU (unsupported, minimum operable size within measurement channel bandwidth)	Top

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