

ISO 14001:2015: Key Changes

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Topics for Discussion

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- Background on ISO 14001 Revision
- Highlight of key changes in ISO 14001:2015
- Top Management Role
- Value and Benefits
- Next Steps



Background

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History:

- ISO 14001 first developed in 1996
- Minor revisions in 2004 to clarify requirements

Challenges:

- Proliferation of management systems
- Increasingly stringent legislation
- Pressures on environment from pollution, inefficient use of resources, waste, climate change and degradation of ecosystems/biodiversity
- Developments in business management practices
- Focus on sustainability, transparency and accountability



ISO 14001 Revision Mandate

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Goal:

Incorporate new approaches in the field of Environmental Management, and meet stakeholder expectations that have evolved since 1996

...so that ISO 14001 remains relevant over the next 20 years

Mandate:

- **ISO Annex SL**- common structure, requirements, terms and definitions
- **TC 207 'Future Challenges of EMS'** recommendations
- Maintain existing requirements



Key Implications

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- Alignment and integration with business strategy and other management systems
- Risk-based approach
- Prominence of interested parties
- Beyond P2 → Protection of the environment
- Enhance performance & demonstrate compliance status
- Impacts organization has on environment & *vice versa*
- Lifecycle perspective, including outsourced processes
- External communication
- New terminology and structure

**Provide a systematic approach that contributes to the
'environmental pillar' of sustainability**



HIGHLIGHT OF KEY CHANGES

ISO 14001:2015



ISO 14001:2015 Structure

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1. Scope

2. Normative references

3. Terms and definitions

4. Context of the organization

- Understanding the organization and its context
- Understanding needs and expectations of interested parties
- Scope of the management system
- Environmental management system

5. Leadership

- Leadership & commitment
- Environmental policy
- Roles, responsibilities and authorities

6. Planning

- Actions to address risks & opportunities
 - General
 - Environmental aspects
 - Compliance obligations
 - Planning action
- Objectives and planning to achieve them
 - Environmental objectives
 - Planning to achieve objectives

7. Support

- Resources
- Competence
- Awareness
- Communication
 - General
 - Internal communication
 - External communication
- Documented information
 - General
 - Creating and updating
 - Control of documented information

8. Operation

- Operational planning and control
- Emergency preparedness & response

9. Performance evaluation

- Monitoring, measurement, analysis & evaluation
 - General
 - Evaluation of compliance
- Internal audit
- Management review

10. Improvement

- General
- Nonconformity and corrective action
- Continual Improvement

Annex A –
Informative Guidance

Annex B –
Correspondence 2015
vs 2004

Bibliography

**Alphabetical
Index**

Key:

Black – core MS requirement ,
comparable to 14001:2004
Red – New MS requirements
Blue – ISO 14001, discipline-
specific



Organizational Context

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- Strategic understanding of issues important to the organization and its EMS
 - External factors
 - Internal factors
 - Environmental conditions affecting or affected by the organization.
- Knowledge gained guides EMS planning
 - Select & manage issues with adverse or beneficial effects

Issues/Problems or Changing Circumstances related to:

- environmental conditions - climate, air/water quality, land use, resource availability & biodiversity
- external context - regulation, technology, economic, competition
- internal context - governance, strategy, resource capability



Interested Parties

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- Determine relevant interested parties
 - Internal and external
- Determine their relevant needs and expectations
 - aka, interested party 'requirements'
- Determine which of these needs and expectations become the organization's 'requirements'
 - aka, organization's 'compliance obligations'



Compliance Obligations

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- New terminology referring to an organization's obligations

Replaces 'legal requirements and other applicable requirements to which the organization subscribes'

- The organization determines those it has to comply with and those it chooses to comply with
 - Mandatory requirements
 - Voluntary requirements

Once adopted, the organization is obliged to comply

- Evaluate compliance

Maintain knowledge and understanding of compliance status



‘Risk-based Thinking’

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- Determine key issues & requirements that can pose adverse or beneficial effects in a prioritized way to:
 - Assure EMS can achieve its intended outcomes
 - Prevent or reduce undesired effects
 - Achieve continual improvement
- ‘Risks and Opportunities’ that need to be addressed, include:
 - Significant environmental aspects
 - Compliance obligations
 - Other priority issues for the organization

Formal Risk Assessment methodology not required



Issues w/ Potential Risk/Opportunity

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- Environmental aspects
- Local/regional environmental conditions
- Compliance obligations
- Changing regulations
- Environmental performance
- Interested party concerns
- Financial/economic situation
- New product development
- Changes in operations
- Technologies, e.g., environmental, IT
- Product lifecycle, including supply chain

Take action to address those that are of strategic importance & that support the EMS intended outcomes



‘Risk-based Thinking’

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Prioritize issues that effect intended outcomes:

- Enhancement of Environmental Performance
- Fulfillment of Compliance Obligations
- Achievement of Environmental Objectives

...Plus any additional ones an organization sets for itself

Plan actions to mitigate ‘risks’ and leverage ‘opportunities’, e.g.,

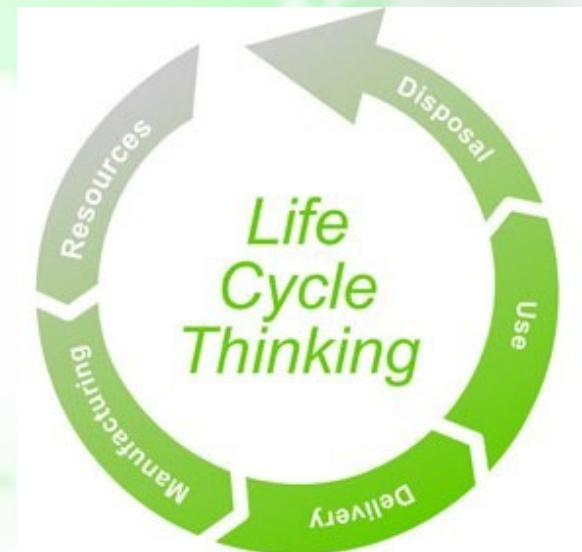
- Environmental Objectives
- Operational Control
- Emergency Preparedness & Response
- Monitoring/measuring
- Others, as appropriate

Org retains autonomy to determine priority issues

Life cycle Perspective

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- Explicit in determining environmental aspects and operational controls
- Considers the environmental impacts that can be controlled and influenced during each stage of the product lifecycle
 - Raw material acquisition
 - Manufacture
 - Packaging/Transport/Delivery
 - Use
 - End of life treatment & final disposal



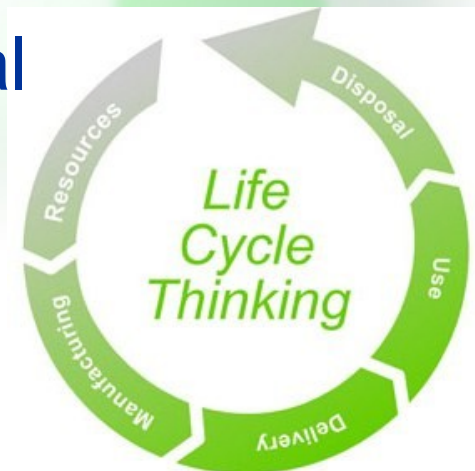
**Life cycle perspective does not require
a life cycle assessment**

Operational Control

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Control the stages of product lifecycle by:

- Establishing environmental requirements for
 - product design & development, addressing each stage of product or service lifecycle
 - procured products/services
- Communicating environmental requirements to external providers (i.e., suppliers, contractors)
- Providing information on environmental impacts associated with transport/delivery, use, end-of-life treatment, final disposal of products/services





Operational Control

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Applies to processes needed to:

- Meet EMS requirements
- Implement planned actions
- Outsourced processes

Establish operating criteria

Control planned changes & mitigate adverse effects of unintended changes

Control or influence outsourced processes emphasized

- Significant environmental aspects
- Compliance obligations
- Other risks & opportunities
- Environmental objectives



Communications

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- Establish a communication process
 - Covering what, when, with whom and how it will communicate, internally & externally
- Information needs to be consistent & reliable
- Enable input/feedback for continual improvement
- Communicate externally as required by its compliance obligations and its communication process
- Respond to inquiries by external interested parties
- Retain records, *as appropriate*



What to communicate

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- Scope
- Importance of effective environmental management & conforming to EMS requirements
- Environmental policy
- Responsibilities/authorities for EMS roles
- EMS performance to top managers; internally and externally, as per compliance obligations & communication process
- Significant aspects
- Environmental objectives
- Responses to relevant communication from internal & external interested parties
- EMS, including changes
- Environmental requirements & environmental impacts to external providers &/or users
- Emergency prep & response information
- Audit results to top managers



Documented Information

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New terminology referring to:

- documentation, documents and records
- acknowledges new information management methods

Specific requirements for creating, updating controlling and maintaining documents & records

- not significantly different from 2004 version

Eliminated requirement for EMS description

**Organizations not required to use term
'documented information'**



Required Documentation

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DOCUMENTS

- scope of the EMS
- environmental policy
- risks & opportunities
- process(es) to satisfy clause 6.1
- environmental aspects and impacts
- criteria for significant environmental aspects
- significant environmental aspects
- compliance obligations
- environmental objectives
- operational control – related*
- emergency preparedness & response

RECORDS

- Competence
- internal & external communications, as appropriate
- operational control – related*
- emergency preparedness & response*
- monitoring, measurement, analysis and evaluation results
- compliance evaluation results
- audit programme implementation
- audit results
- management review results
- corrective action results, nonconformities and actions taken

Plus any documents or records the organization deems necessary, including that of external origin



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TOP MANAGEMENT ROLE



Top Management Role

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Visible support, involvement & commitment of top management are critical success factors

- Ownership & commitment
- Accountability for EMS effectiveness & results
- Understanding organizational context & using a risk-based approach to establish EMS priorities
- Emphasis on alignment with business strategy & integration with business processes



Leadership and Commitment

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Responsible to:

- Communicate
- Direct/support others to contribute to EMS effectiveness
- Promote continual improvement
- Support others in demonstrating their leadership
- Be accountable

Can Delegate:

- Compatibility with the context & its strategic direction
- EMS integration into the business processes
- Resource availability
- Achievement of intended outcome(s)

Role as 'Leaders' to inspire others



Environmental Policy

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Commitments

- Protection of the environment
- Conformity to compliance obligations
- Continual improvement

Protection of Environment includes

- Prevention of pollution and
- Other specific commitment(s) that are relevant to its context, as appropriate, e.g.,
 - Sustainable resource use
 - Climate change mitigation and adaptation
 - Protection of biodiversity & ecosystems
 - Or others



Continual Improvement

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- Determine opportunities for improvement and implement actions to achieve intended outcomes
- Improve the suitability, adequacy and effectiveness of the environmental management system
- Focus - improving environmental performance
 - Reducing adverse environmental impacts or
 - Increasing beneficial impacts.

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VALUE & BENEFITS

NEXT STEPS



Environmental Value & Benefits

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Risk-based approach to protect the environment

- Prevent adverse impacts
- Pursue opportunities with beneficial impact & competitive advantage

Optimize the product footprint

- Address during product design
- Focus on each lifecycle stage - raw materials, manufacture, transport, packaging, consumer use and final disposal

Enhance environmental performance

Raise environmental awareness & involvement



Organizational Value & Benefits

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Alignment of EMS

- Environmental management to business strategy
- Environmental initiatives with business priorities
- EMS processes with other management system processes

Satisfy compliance obligations

Mitigate adverse effects on the organization

Realize operational efficiencies & financial benefits

Fulfill the environmental pillar of sustainable development

Next Steps

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Standards Writers:

- FDIS ballot approved by 98% member bodies
- Publication → September 15, 2015
- Transition period → 3 years

Organizations:

- Learn more about the new requirements
- Read the standard!
- Identify and close gaps

**Take steps toward
sustainable development**



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A large, light green, semi-transparent world map is centered in the background of the slide, showing the continents of North America, South America, Europe, Africa, Asia, and Australia.

THANK YOU!

For more information...

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