

ISO 14001:2015 & ISO 45001:2018 A Comparative Review for the AHMP 2018 Annual Conference



ISO Standard Changes

- ISO 14001:2015 & ISO 45001:2018
- New Standards employ a common approach sometimes referred to as the common format Annex SL (e.g. ISO 9001:2015)
- Need to recertify to the new environmental standard by September, 2018
- Need to migrate OHSAS 18001 to ISO 45001 by March, 2021
- Need to adjust or even re-tool your management system to meet all the new requirements.

Comparison of Standards

ISO 14001:2015	ISO 45001:2018
1 Scope	1 Scope
2 Normative references	2 Normative references
3 Terms & Definitions	3 Terms & Definitions
4 Context of the Organization	4 Context of the Organization
4.1 Organization and its Context	4.1 Organization and its Context
4.2 Needs & Expectations of Interested Parties	4.2 Needs & Expectations of Interested Parties
4.3 Scope of the EMS	4.3 Scope of the OH&S MS
4.4 EMS	4.4 OH&S Management System

Comparison of Standards

ISO 14001:2015	ISO 45001:2018
5 Leadership	5 Leadership & Worker Participation
5.1 Leadership & Commitment	5.1 Leadership & Commitment
5.2 Environmental Policy	5.2 OH&S Policy
5.3 Roles, Responsibilities & Authorities	5.3 Resources, Roles, Responsibilities & authority
	5.4 Consultation & Participation of workers

Comparison of Standards

ISO 14001:2015	ISO 45001:2018
6 Planning	6 Planning
6.1 Actions to address risks & opportunities	6.1 Actions to address risks & opportunities
6.1.1 General	6.1.1 General
6.1.2 Environmental Aspects	6.1.2 Hazards ID & Risks Assessments and Opportunities
6.1.3 Compliance Obligations	6.1.3 Determine legal & other requirements
6.1.4 Planning Action	6.1.4 Planning Action
6.2 Objectives & plan to achieve	6.2 Objectives & plan to achieve
6.2.1 Environmental Objectives	6.2.1 OH&S Objectives
6.2.2 Planning Actions for O&Ts	6.2.2 Planning to achieve OH&S objectives

Comparison of Standards

ISO 14001:2015	ISO 45001:2018
7 Support	7.0 Support
7.1 Resources	7.1 Resources
7.2 Competence	7.2 Competence
7.3 Awareness	7.3 Awareness
7.4 Communication	7.4 Communications
7.4.1 General	7.4.1 General
7.4.2 Internal Communication	7.4.2 Internal Communications
7.4.3 External Communication	7.4.3 External Communications

Comparison of Standards

ISO 14001:2015	ISO 45001:2018
7.5 Documented Information	7.5 Documented Information
7.5.1 General	7.5.1 General
7.5.2 Creating & Updating	7.5.2 Creating & Updating
7.5.3 Control of Documented Info	7.5.3 Control of Documented Info

Comparison of Standards

ISO 14001:2015	ISO 45001:2018
8 Operation	8 Operation
8.1 Operational Planning & Control	8.1 Operational Planning & Control
	8.1.1 General
	8.1.2 Eliminating Hazards & Reducing Risks
	8.1.3 Management of Change
	8.1.4 Procurement
8.2 Emergency preparedness & response	8.2 Emergency preparedness & response

Comparison of Standards

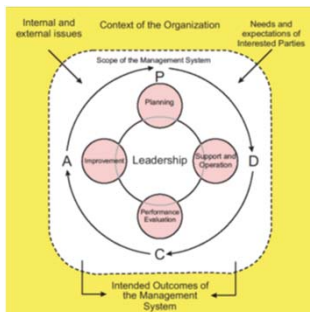
ISO 14001:2015	ISO 45001:2018
9 Performance Evaluation	9 Performance Evaluation
9.1 Monitoring, measurement, analysis and evaluation	9.1 Monitoring, measurement, analysis and performance evaluation
9.1.1 General	9.1.1 General
9.1.2 Evaluation of Compliance	9.1.2 Evaluation of Compliance
9.2 Internal Audit	9.2 Internal Audit
9.2.1 General	9.2.1 General
9.2.2 Internal Audit Program	9.2.2 Internal Audit Program
9.3 Management Review	9.3 Management Review

Comparison of Standards

ISO 14001:2015	ISO 14001:2004
10 Improvement	10 Improvement
10.1 General	10.1 General
10.2 Nonconformity & Corrective action	10.2 Incident , nonconformity and corrective action
10.3 Continual Improvement	10.3 Continual Improvement

A Closer Look at These ISO Standards

Plan Do Check Act Model



Verbal language of the Standard

- “shall” - indicates a requirement
- “should” indicates a recommendation
- “may” indicates a permission
- “can” indicates a possibility or a capability
- “documented information” indicates a required document

Examples of required Documented Information

- Management System Scope
- Policy Statement
- Aspects and Risks
- Compliance Obligations
- Objectives and Targets
- Competence records
- Communications
- Operational Controls
- Emergency Response and management
- Evaluation of Compliance Obligations
- Internal Audits
- Management Review
- Corrective actions

Examples of **SUGGESTED** Documented Information

- Context Review with decisions made
- Organizational Responsibilities
- Action plans for achieving the Objectives and Targets
- Awareness training (can be considered internal communications)
- Internal and External Communications

Clause 3-Terms & Definitions

- In **Environmental Standard** Arranged by concept
 - management system,
 - planning,
 - support & operations,
 - performance & improvement
- Includes explanatory notes and examples
- EMS has 19 new terms (e.g. top management, risk, risk opportunity, competence, life cycle, process, performance, indicator, etc.)
- In **OH&S MS** there 37 terms defined (e.g. worker, participation, consultation, contractor, outsource, incident, etc.)

Clause 4 -What is Meant By “Context”

- Determine internal and external environmental issues that influence the organizations environmental performance
- Interested parties- identify internal and external interested parties and what are their needs, including compliance obligations
- Need to use a risk based analysis looking at strengths, weaknesses, opportunities and threats
- Identify the characteristics of internal and external environmental factors that influence the organization (e.g. mission, activities, interested parties)
- Need to document process in order to develop the EMS scope
- Who are interested parties? Customers, regulators, financial organizations, general public, emergency responders, employees, management, contractors and general public

Clause 5-Leadership

- A new enhanced requirement focused on top management
- Top Management must be more hands on
 - Be accountable for the effectiveness of the EMS
 - Ensure the system addresses all business processes -e.g. (manufacturing, customer requirements, management of change, financial goals, employee requirements, etc.)
 - Lead and support the achievement of the environmental objectives
 - Focus on continual improvement (cross-functional teams, workshops, aligned with other management systems)

Clause 6.1.2- Risks

- Must be looking at what causes (aspects/activities) impacts and risks.
- Must be a process approach
- For environmental, must determine those aspects that are significant
- Must document the risk analysis

Clause 7.2- Competence

- The organization shall:
 - Determine the necessary competence of persons that affects EH&S performance and compliance obligations
 - Ensure persons are competent on basis of education , training and/or experience
 - Determine the training needs
 - Take actions to acquire the necessary competence and evaluate the effectiveness of the actions
 - Maintain records of competence

Clause 8.1- Operational Planning

- Establish, implement, control and maintain processes needed to implement the actions identified (Clauses 6.1 and 6.2) by
 - Establishing operating criteria for processes
 - Implementing control of processes
- Control planned changes and review of consequences of unintended changes; take action to mitigate adverse effects
- Outsourced processes must be controlled.
- Consistent with a life-cycle perspective:
 - Establish control in design and development for products and services while considering each stage of the life cycle
 - Determine requirements for procurement of products & services
 - Communicate EH&S requirements to external providers & contractors
 - Consider potential significant impacts of transportation, end-of-life, final disposal of products and services

Clause 9.1.1 Monitoring, Measurement, Analysis & Evaluation

- The Organization shall determine:
 - What needs to be monitored
 - The methods of monitoring
 - Criteria against evaluating environmental performance and indicators
 - When to perform M&M
 - When to analyze results of M&M

Clause 10.2 Nonconformity

- When nonconformity occurs:
 - React to nonconformity by taking action and correction and
 - Deal with consequences, including mitigation
- Evaluate action to eliminate causes
 - Review nonconformity
 - Determine causes
 - Determine if similar problems exist or could occur
 - Implement any necessary action
 - Review effectiveness of corrective action
 - Make changes to EMS as required
 - Retain documented evidence nature and actions

Clause 10.3 Continual Improvement

- Continually improve the suitability, adequacy and effectiveness of the EMS to enhance environmental performance

Questions?

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