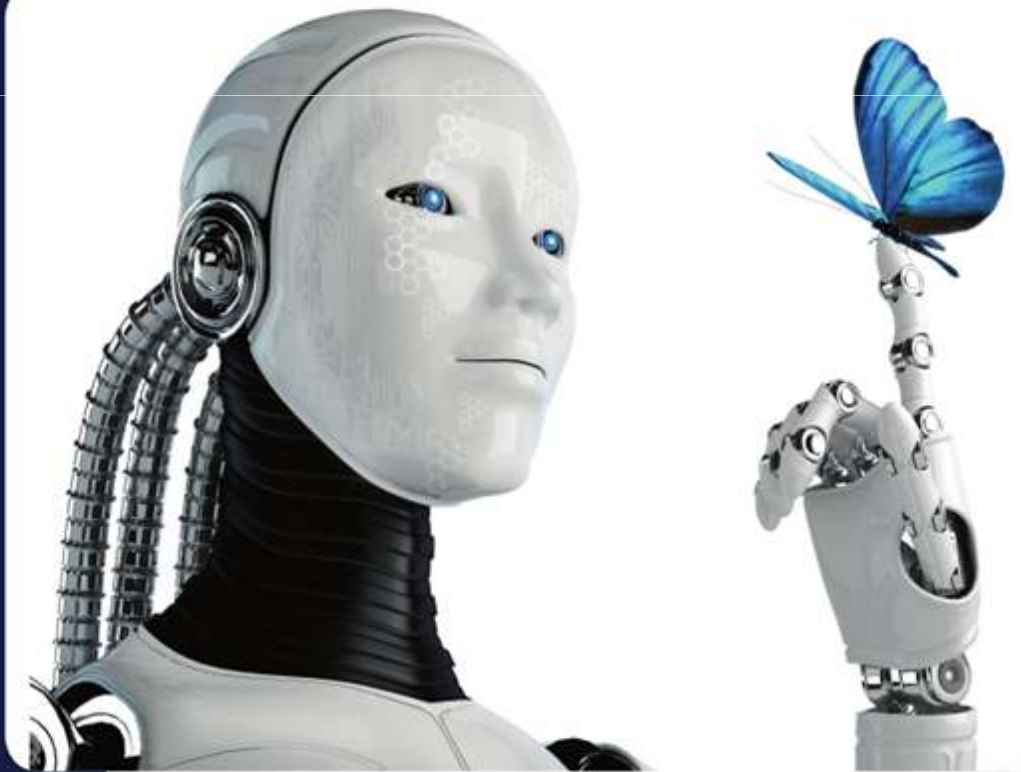




ICR

Newsletter May, 2017



Hot issue

- ISO 45001 Overview
- Changing the KOLAS Scope of Accreditation
- Business Agreement (MOU) between ICR and FITI
- Certified Machinery Safety Expert



All companies are always advancing towards
for better development and brighter future.

However, in order to go further in the fast-changing times, corporate efforts are absolutely needed. In response to that, ICR constantly studies with pride that customer satisfaction is the best objective. In addition, ICR has been reminded that the best competitiveness is "Increasing mutual trust". ICR is the nation's first one-stop service certification body as your specialized partner can locally and internationally provide testing, verification, inspection and certification services. Be with ICR's trusted change and innovation, ICR will promise your smart and rich future.



ISO 45001 Overview

ISO 45001 is the [new international standard for occupational health and safety](#), providing a framework for managing the prevention of death, work-related injury and ill health, with the intended outcome of improving and proving a safe and healthy workplace for workers and persons under an organization's control.

The draft international standard (DIS) of ISO 45001:2016 was published on 12 February 2016 and the ballot period ended 12 May, with a final tally of 71% in favor to 29% against, the DIS ballot results fell short of the required votes, as no more than a quarter of the votes can be "against" for the standard to move on to the next stage of approval. As a result, the development of ISO 45001 will now progress to a second DIS, beginning in January 2017 and pushing back the estimated publication date to December 2017.

■ ISO 45001 Key Benefits

ISO 45001 will implement the Annex SL process and structure, making integration of multiple ISO management system standards easier, such as ISO 9001, quality management system and ISO 14001, environmental management system.

It uses a simple plan-do-check-act (PDCA) model, which provides a framework for organizations to plan what they need to put in place in order to minimize the risk of harm, The measures should address concerns that can lead to long-term health issues and absence from work, as well as those that give rise to accidents.

■ ISO 45001 Development Timeline (Via ISO)



- **Proposal Stage** : Confirm new international standard "subject area" is needed.
- **Preparatory Stage** : Working group(WG) is set up to prepare the working draft(WD).
- **Committee Stage** : WD is shared with members of the parent committee.
A committee draft(CD) is circulated to committee members for comment/reach consensus.



ISO 45001 Overview

- **Enquiry Stage** : The draft international standard (DIS) is circulated to all ISO members who get three months to vote and comment.
- **Approval Stage** : The final draft international standard (FDIS) is circulated to all ISO members for a two months vote. This stage is skipped if the DIS is approved.

■ The main changes on ISO45001

1. Structure of international standard
2. Organizational Context
3. Understanding needs and expectations of interested parties
4. Leadership
5. Worker Participation (Worker Representatives)
6. Hazard Identification/ Assessment of Risk
7. Planning
8. Need to prevent ill-health and injuries
9. Documented information
10. Outsourcing, Procurement and Contractors
11. OH&S Performance Evaluation

■ The main change 1 Structure of international Standard – SL Structure

Foreword
Introduction
0.1 Background
0.2 Aim of OH&S Management System
0.3 Success Factors
1. Scope
2. Normative References
3. Terms & Definitions
4. Context of the Organization
5. Leadership & Worker Participation
6. Planning
7. Support
8. Operation
9. Performance Evaluation
10. Improvement
Annex A : Guidance on use of this international standard
Bibliography



ISO 45001 Overview

■ The main change 2 Organizational Context (Clause 4)

Result of context review shall be used to:

- Understand & determine scope and issues (positive & negative) that can affect how organization manages OH&S management system
- Determine risk & opportunities
- Developing or enhancing OH&S Policy & set objectives
- High level understanding needs & expectations of workers & other interested parties (and Differences for managerial & non-managerial workers)

Issues include : conditions, characteristics or changing circumstances that can affect OH&S. Internal/external issues can result in risks/opportunities

External Context Issues

- Cultural, political, economic, legal, natural surroundings. market competition
- New competitors, technologies, laws, new occupations
- Key drivers & trends in industry sector
- Relationships, perceptions & values of external interested parties

Internal Context Issues

- Organizational structure, roles, accountabilities, capabilities, organizational culture
- Information system, flows, decision making
- Intro of new products and equipment
- Standards, guidelines, contractual, relationship
- Change in relation to working time requirements

■ The main change 3 Understanding Needs of Interested Parties (clause 4)

- Needs & expectations of both managerial & non-managerial workers & workers representatives (where they exist)
- Affect OH&S management system or which perceive themselves to be affected by OH&S system
- Worker & as appropriate workers' representatives
- Legal & regulatory authorizes



ISO 45001 Overview

- Parent Organization
- Supplier, Co-contractors & subcontractors
- Workers' organizations (trade unions) and employers' organizations
- Owner, shareholders, clients, visitors, local community, neighbors, general public
- Occupational health & safety organizations; occupational safety and health-care professionals (e.g., doctors, nurses)

■ The main change 4 Leadership (clause 5)

Leadership has been enhanced to ensure commitment & active support from top management

- Taking overall responsibility & accountability for protection of workers' work-related health & safety
- Ensuring OH&S policy & objectives established
- OH&S compatible with organizations strategic direction
- Integrating OH&S into organizations business process
- Allocating necessary resources OH&S (establish, implement, maintain & improve)
- Ensure active participation of workers & workers' representatives (consultation & removing obstacles)
- Internal/ external communications supporting OH&S
- Ensuring OH&S management systems achieve intended outcomes(s)
- Supporting relevant management roles to demonstrate their leadership as it applies to their areas of responsibility
- Developing, leading and promoting a culture in organization that supports OH&S management system

■ The main change 5 Worker Participation (clause 5)

Non-managerial worker participation

Give additional emphasis to determine:

- Mechanism for participation & consultation
- Hazard identification & assessment of risk
- Actions to control hazard & risk
- Identification of needs of competence, training & evaluation of training
- Information (what & how) to be communicated



ISO 45001 Overview

- Investigating incidents, non-conformities, & involved in corrective actions
- Need & expectations of interested parties
- Establishing policy
- Assigning organizational roles, responsibilities, accountabilities & authorities

■ The main change 6 Hazard Identification/ Assessment of Risk (clause 6)

Hazard identification should proactively identify any sources or situation arising from organizations activities, with potential for work-related injury & ill health. Source/ situations could include. But not limited to :

- **Source** : hazardous substances, radiation, temperature, pressure, dust, noise & vibration
- **Situation** : working at heights, working in confined space, working alone, worker fatigue, aggressive behavior or harassment, workload and task control
- **Hazards** can be categorized in many way, including: physical, chemical, biological, psychosocial, physiological, or mechanical and electrical, or based on movement and energy.

■ The main change 7 Planning (Clause 6)

When planning for OH&S management system, organization shall

- Consider issues referred to in "organizational context" (4.1)
- Requirements referred to in "interested parties" (4.2)
- Scope of its OH&S management system (4.3)
- Determine risks and opportunities that need to be addressed

When planning how to achieve OH&S objectives, the organization shall Determine:

- What will be done
- What resources will be required
- Who will be responsible
- When it will be completed
- How it will be measured through indicators (if practicable) & monitored
- How results will be evaluated



ISO 45001 Overview

- How the actions to achieve OH&S objectives will be integrated into the organizations business process

■ The main change 8 Need to prevent ill-health/injuries (clause 6)

ILO ILS recommend that where workers identify circumstances at danger or a hazardous environmental which can cause injury and ill health, they should be able to remove themselves & inform the organization of the circumstances without risk of penalization.

Five basic commitments for OH&S Policy in ISO 45001

- Provide safe & healthy working conditions for the prevention of work-related injury & ill health
- Satisfy applicable legal requirements & other requirements
- Control OH&S risks using the hierarchy of control
- Continual improvement of OH&S management system to enhance OH&S performance
- Participation

■ The main change 9 Documented information (clause 7.5)

Organization will need to maintain & retain documentation information of OH&S objectives & plans to achieve them, keeping complexity to minimum

Control of documented information

- Available & suitable for use, where & when needed
- Adequately protected (loss, confidentiality, use, integrity)
- Control
 1. Distribution, access, retrieval, use
 2. Storage & preservation
 3. Control of changes
 4. Retention & disposition
 5. Access by workers, & where they exist, workers representatives, to relevant documented information



ISO 45001 Overview

■ The main change 10 Outsourcing, Procurement & Contractors (Clause 8)

Outsourcing :

Organization shall ensure that outsourced processes affecting OH&S management system are controlled.

An outsourced process is one that:

- is within scope of OH&S management system
- is integral to organizations functioning
- is needed for OH&S management system to achieve its intended outcome
- Liability for conforming to requirements is retained by the organization
- Organization & external provider have a relationship where the process is perceived by interested parties as being carried out by the organization

Procurement:

Establish controls to ensure that the procurement of goods (for example products, hazardous materials or substances, raw materials, equipment) and services conform to its OH&S management system requirements

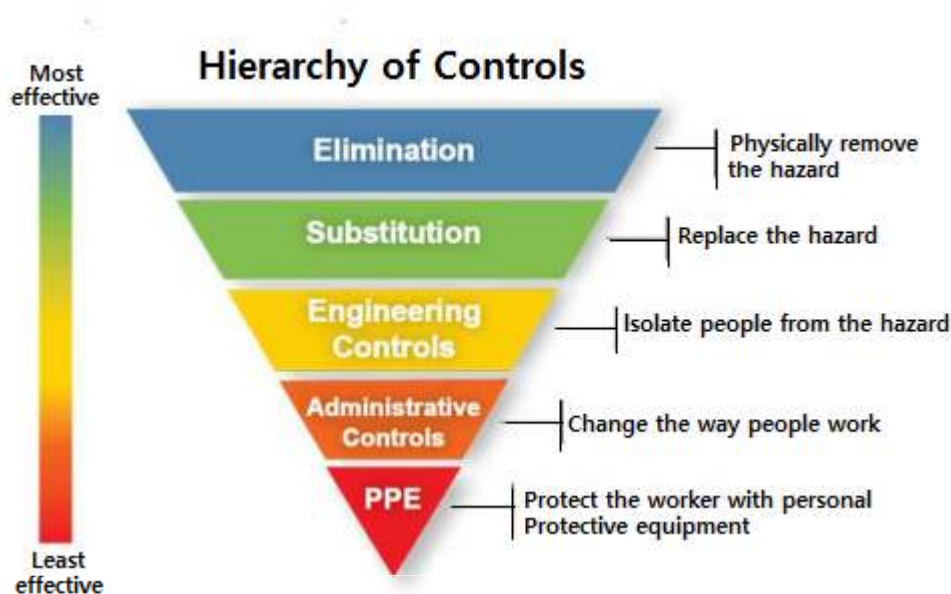
Prior to procuring goods & services, the organization should identify procurement controls that:

- Identify & evaluate potential OH&S risks associated with products, materials, equipment, service
- Requirements for products, materials, equipment, services to conform to OH&S objectives
- Need for information, participation & communications
- Before using verify equipment, installations & materials are adequate before being released for use by workers
- Delivered to specifications & are tested to ensure works as intended
- Usage requirements, precautions or other protective measures are communicated & made available.



ISO 45001 Overview

Organization shall establish a process & determine controls for achieving reduction in OH&S risks Using following hierarchy:



- **Hazard Elimination** : avoiding risks, adapting work to workers, (integrate health safety and ergonomics when planning new work places; create physical separation of traffic between pedestrians and vehicles)
- **Substitution** : replacing the dangerous by non-dangerous or less dangerous (replacing solvent based paint with water based paint)
- **Engineering Controls** : Implement collective protective measures (Isolation, machine guarding, ventilation, noise reduction etc.)
- **Administrative Controls** : Giving appropriate instructions to workers (lock out processes, induction, forklift driving licenses, etc.)
- **Personal Protective Equipment PPE** : Provide PPE and instructions for PPE (utilization/maintenance, i.e. safety shoes, safety glasses, hearing protection, chemical & liquid resistant gloves, electrical protection gloves, etc.)



ISO 45001 Overview

■ The main change 11 OH&S Performance Evaluation (clause 8)

Organization shall establish, implement and maintain a process for monitoring, measurement and evaluation, shall determine what needs to be monitored measured, including...

- Criteria against which the organization will evaluate OH&S performance
- Methods for monitoring, measurement, analysis, and evaluation, as applicable, to ensure valid results
- When the monitoring and measure shall be performed
- When the results from monitoring and measurement shall be analyzed, evaluated and communicated

Examples of what could be monitored and measured can include;

- Progress on meeting policy commitments, achieving objective & continual improvement
- Occupational health complaints, health surveillance of works & work environment monitoring
- Work related incidents, injuries, ill health, complaints, including trends
- Effectiveness of operational controls & emergency exercises
- Proactive & reactive actions affecting OH&S performance
- Competence



ISO 45001 Overview

■ Comparing ISO 45001(DIS1) to OHSAS 18001

ISO 45001	OHSAS 18001:2007
1. Scope	1. Scope
2. Normative references	2. Reference publications
3. Terms and definitions	3. Terms and definitions
4 Context of the organization	
4.1 Understanding the organization and its context	
4.2 Understanding the needs and expectations of workers and other interested parties	
4.3 Determining the scope of the OH&S management system	4 OH&S management system requirements
4.4 OH&S management system	4.1 General requirements
5 Leadership and work participation	
5.1 Leadership and commitment	
5.2 OH&S policy	4.2 OH&S policy
5.3 Organizational roles, responsibilities, accountabilities and authorities	4.4.1 Resources, roles, responsibility, accountability And authority
5.4 Participation and consultation	4.4.3.2 Participation and consultation
6 Planning	4.3 Planning
6.1 Actions to address risks and opportunities	
6.1.1 General	
6.1.2 Hazard identification and assessment of OH&S risk	4.3.1 Hazard identification, risk assessment and determining controls
6.1.2.1 Hazard identification	
6.1.2.3 Assessment of OH&S risks and other risks to the OH&S management system	
6.1.3 Determination of applicable legal requirements and other requirements	4.3.2 Legal and other requirements
6.1.4 Planning to take action	
6.2 OH&S objectives and planning to achieve them	4.3.3 Objectives and programme(s)
6.2.1 OH&S objectives	
6.2.2 Planning to achieve OH&S objectives	
7 Support	
7.1 Resources	4.4.1 Resources, roles, responsibility, accountability And authority



ISO 45001 Overview

■ Comparing ISO 45001(DIS1) to OHSAS 18001

ISO 45001	OHSAS 18001:2007
7.2 Competence	4.4.2 Competence, training and awareness
7.3 Awareness	
7.4 Information and communication	4.4.3 Communication, participation and consultation 4.4.3.1 Communication
7.5 Documented information	4.4.4 Documentation 4.4.5 Control of documents 4.5.4 Control of records
7.5.2 Creating and updating	
7.5.3 Control of documented information	
8 Operation	4.4 Implementation and operation
8.1 Operational planning and control	4.4.6 Operational control
8.1.1 General	
8.1.2 Hierarchy of controls	4.3.1 Hazard identification, risk assessment and determining control
8.2 Management of change	4.4.6 Operational control
8.3 Outsourcing	
8.4 Procurement	
8.5 Contractors	
8.6 Emergency preparedness and response	4.4.7 Emergency preparedness and response
9 Performance evaluation	4.5 Checking
9.1 Monitoring, measurement, analysis and evaluation	4.5.1 Performance measurement and monitoring
9.1.1 General	
9.1.2 Evaluation of compliance with legal requirements and other requirements	4.5.2 Evaluation of compliance
9.2 Internal audit	4.5.5 Internal audit
9.2.1 Internal audit objective	
9.2.2 Internal audit process	
9.3 Management review	4.6 Management review
10 Improvement	4.5.3 Incident investigation, nonconformity, corrective action and preventive action
10.1 Incident, nonconformity and corrective action	
10.2 Continual improvement	4.1 General requirements
10.2.1 Continual improvement objective	4.2 OH&S policy
10.2.2 Continual improvement process	4.6 Management review

Changing the KOLAS Scope of Accreditation



Our ICR Test & Inspection Division informs you that We have changed the KOLAS scope of accreditation according to the standard revision of the existing accreditation scope as below.

We will provide KOLAS test service for **03.005 Measuring instrument performance test(23)**, **03.007 Household and similar equipment(58)** and **03.010 Medical Appliance(80)** including changes Scope of Accreditation.

Before	After
03.005 Measuring instrument performance test	
IEC 61010-1:2010	IEC 61010-1:2010 <i>+A1:2016</i>
IEC 61010-2-020:2006	IEC 61010-2-020:2016
03.007 Household and similar equipment	
IEC 60335-1:2010+A1:2013	IEC 60335-1:2010+A1:2013 <i>+A2:2016</i>
IEC 60335-2-9:2008+A1:2012	IEC 60335-2-9:2008+A1:2012 <i>+A2:2016</i>
IEC 60335-2-14:2006+A1:2008+A2:2012	IEC 60335-2-14:2016
IEC 60335-2-15:2012	IEC 60335-2-15:2012+A1:2016
IEC 60335-2-23:2003+A1:2008+A2:2012	IEC 60335-2-23:2016
EN 60335-2-14:2006+A1:2008+A11:2012	EN 60335-2-14:2006+A1:2008 +A11:2012 <i>+A12:2016</i>
EN 60335-2-15:2002+A1:2005+A2:2008+ A11:2012	EN 60335-2-15:2016
EN 60335-2-54:2008+A11:2012	EN 60335-2-54:2008+A11:2012 <i>+A1:2015</i>
03.010 Medical Appliance	
IEC 60601-2-6 ed2.0 : 2012	IEC 60601-2-6:2012 <i>+A1:2016</i>
IEC 60601-2-10 ed2.0 : 2012	IEC 60601-2-10:2012 <i>+A1:2016</i>
IEC 60601-2-44:2009+A1:2012	IEC 60601-2-44:2009+A1:2012 <i>+A2:2016</i>
EN 60601-2-6:2015	EN 60601-2-6:2015 <i>+A1:2016</i>
EN 60601-2-44:2009+A1:2012	EN 60601-2-44:2009+A1:2012 <i>+A2:2016</i>

Changing the KOLAS Scope of Accreditation



Korea Laboratory Accreditation Scheme

CERTIFICATE OF ACCREDITATION

ICR Co., Ltd.

Accreditation No. : KT652

Corporation Registration No. : 110111-2431479

Address of Laboratory : 112, Hwanggeum 3-ro 7beon-gil Yangchon-eup, Gimpo-si,
Gyeonggi-do

date of Initial Accreditation : January 16, 2015

Duration : January 16, 2015 ~ January 15, 2019

Scope of Accreditation : Attached Annex

Date of issue : April 14, 2017

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025 : 2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 8 January 2009).



Jung Dong Hee

Administrator
Korea Laboratory Accreditation Scheme

Korea Laboratory Accreditation Scheme(KOLAS) is a signatory of the ILAC mutual recognition arrangement

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Business Agreement (MOU) between ICR and FITI



On 28 April 2017, ICR and FITI Testing & Research Institute made an Business Agreement.

The Business Agreement , which took place over an hour at the ICR new building in Gimpo, was signed by Kim Young-chan, Director of the FITI Testing & Research Institute, and Deok Yong Kim, CEO of ICR, to actively promote and cooperate with each other based on the scope of business of two institutions.



Certified Machinery Safety Expert



The ICR Industrial Safety Certification Team has received **Certified Machinery Safety Expert (CMSE)** training and certification for objectivity and professionalism of certification services.

The **Certified Machinery Safety Expert (CMSE)** is an internationally recognized machinery safety expert course hosted by Pilz and issued by TUV NORD.

ICR is constantly striving for the professionalism and objectivity of its employees. Based on this, **ICR is providing objective product certification services**, and **we are working hard to improve the professionalism of our customers.**



www.icrqa.com

ICRO-31/R20161125 본 문서는 법률 제 14088호 저작권법의 보호대상이며, ICR의 지적 자산으로 불법 편집 및 복사를 금합니다.

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