ISO 45001 – An Integrated Approach for QEHS Management Systems

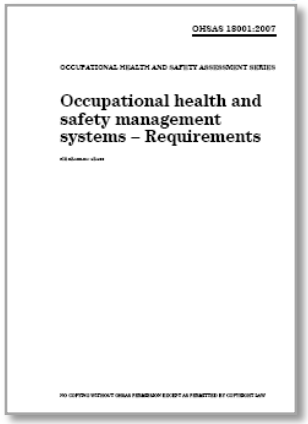
Dr Peck Thian Guan
Co-convenor
National Working Group on Occupational Safety & Health

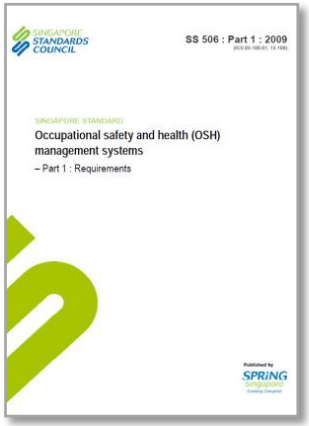
15th Oct 2015

Background

Occupational Safety & Health Management System Standards

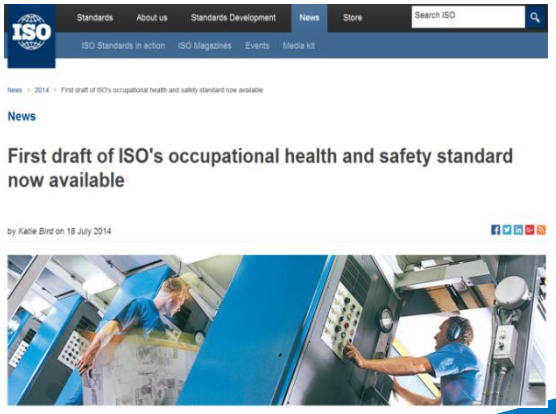
- OHSAS 18001:2007
- SS 506 Part 1:2009





A New work item proposal submitted in 2013 to ISO on behalf of OHSAS Project Group

- To develop a new occupational health and safety management system standard
- New standard to replace OHSAS 18001
- Uses **Annex SL High Level Structure** to align the standard to other ISO management systems standards



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ISO/PC 283 meetings



Oct 2013: 83 delegates from 27 member bodies and 5 liaison members



Sep 2015: 145 delegates from 38 member bodies and 11 liaison members

The future standard

- would carry the number ISO 45001
- with supporting guidance as the annex of the standard (modelled after ISO 14001)
- Target date for publication of ISO 45001 in October 2016

Draft International Standard to be available in early 2016.



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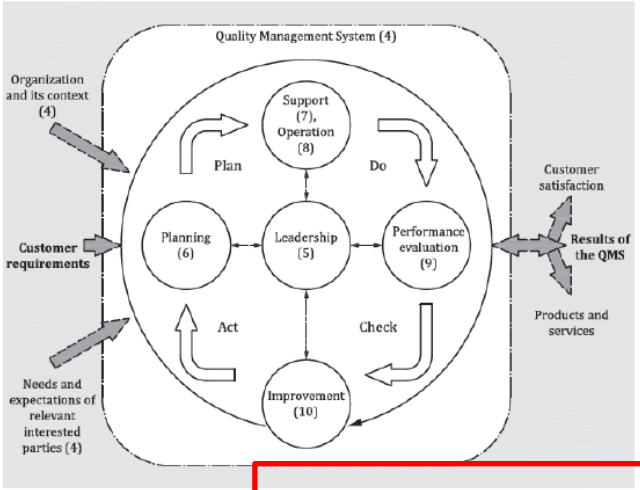
High Level Structure with Clauses & Sub-clauses

1. **Scope**
2. **Normative references**
3. **Terms and definitions**
4. **Context of the organization**
   - Understanding the organization and its context
   - Needs and requirements
   - Scope
   - Management System
5. **Leadership**
   - General
   - Management commitment
   - Policy
   - Roles, responsibility and authority
6. **Planning**
   - Actions to address risks & opportunities
   - Objectives and plans to achieve them
7. **Support**
   - Resources
   - Competence
   - Awareness
   - Communication
   - Documented information
8. **Operation**
   - Operational planning and control
9. **Performance evaluation**
   - Monitoring, measurement, analysis & evaluation
   - Internal audit
   - Management review
10. **Improvement**
    - Non conformity and corrective action
    - Continual Improvement

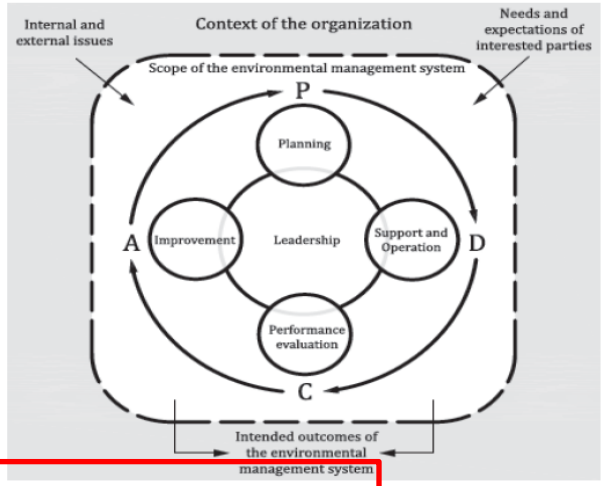
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ISO 9001, ISO 14001 and ISO/CD2 45001 – A Comparison

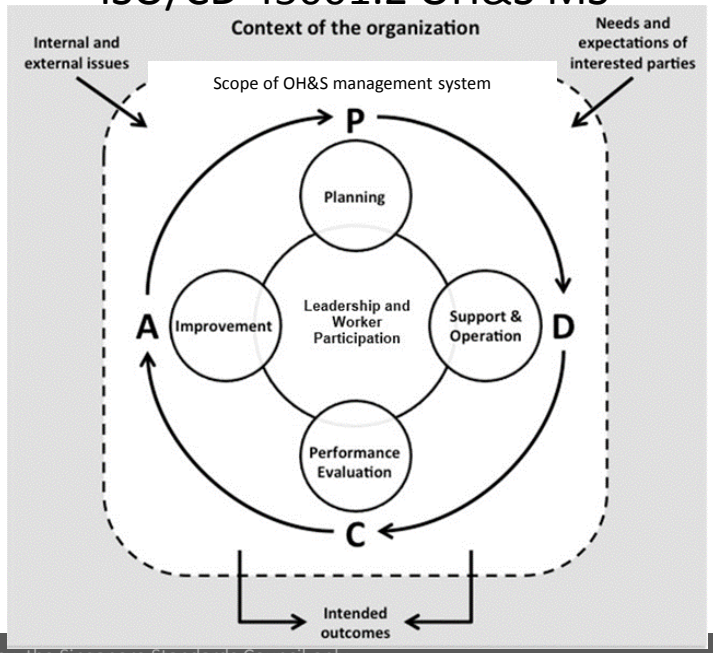
ISO9001:2015 QMS



ISO14001:2015 EMS



ISO/CD 45001.2 OH&S MS



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ISO 9001, ISO 14001 and ISO/CD2 45001 – A Comparison

ISO 9001	ISO 14001	ISO 45001
4 Context of the Organization 4.1 Understanding the organization and its context 4.2 Understanding the needs and expectations of interested parties 4.3 Determining the scope of the quality management system 4.4 Quality management system and its processes	4 Context of the Organization 4.1 Understanding the organization and its context 4.2 Understanding the needs and expectations of interested parties 4.3 Determining the scope of the environment management system 4.4 Environment management system	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 4.4 OH&S management system
5 Leadership 5.1 Leadership and Commitment 5.2 Quality Policy 5.3 Organizational roles, responsibilities and authorities	5 Leadership 5.1 Leadership and Commitment 5.2 Environmental Policy 5.3 Organizational roles, responsibilities and authorities	5 Leadership 5.1 Leadership and Commitment 5.2 OH&S Policy 5.3 Organizational roles, responsibilities, accountabilities and authorities 5.4 Participation, consultation and representation
6 Planning 6.1 Actions to address risks and opportunities 6.2 Quality objectives and planning to achieve them 6.3 Planning for changes	6 Planning 6.1 Actions to address risks and opportunities 6.2 Quality objectives and planning to achieve them	6 Planning 6.1 Actions to address risks and opportunities 6.2 OH&S objectives and planning to achieve them

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ISO 9001, ISO 14001 and ISO/CD2 45001 – A Comparison

ISO 9001	ISO 14001	ISO 45001
7 Support 7.1 Resources 7.2 Competence 7.3 Awareness 7.4 Communication 7.5 Documented Information	7 Support 7.1 Resources 7.2 Competence 7.3 Awareness 7.4 Communication 7.5 Documented Information	7 Support 7.1 Resources 7.2 Competence 7.3 Awareness 7.4 Information and Communication 7.5 Documented Information
8 Operation 8.1 Operation planning and control 8.2 Requirements for products and services 8.3 Design and development of products and services 8.4 Control of externally provided processes, products and services 8.5 Production and service provision 8.6 Release of products and services 8.7 Control of nonconforming outputs	8 Operation 8.1 Operation planning and control 8.2 Emergency preparedness and response	8 Operation 8.1 Operation planning and control 8.2 Management of change 8.3 Outsourcing 8.4 Procurement 8.5 Contractors 8.6 Energency preparedness and response

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ISO 9001, ISO 14001 and ISO/CD2 45001 – A Comparison

ISO 9001	ISO 14001	ISO 45001
9 Performance Evaluation 9.1 Monitoring, measurement, analysis and evaluation 9.2 Internal audit 9.3 Management review	9 Performance Evaluation 9.1 Monitoring, measurement, analysis and evaluation 9.2 Internal audit 9.3 Management review	9 Performance Evaluation 9.1 Monitoring, measurement, analysis and evaluation 9.2 Internal audit 9.3 Management review
10 Improvement 10.1 General 10.2 Nonconformity and corrective action 10.3 Continual improvement	10 Improvement 10.1 General 10.2 Nonconformity and corrective action 10.3 Continual improvement	10 Improvement 10.1 Incident, nonconformity and corrective action 10.3 Continual improvement

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Issues unique to ISO 45001 OH&S MS

1 Workers



Workers as an interested party

- Managerial & non-managerial workers

Workers' representative

- What does this term mean?
- Representative elected or appointed in accordance with national laws, regulations and practice to represent *workers'* interests as they relate to the *OH&S management system* (ILO)

Workplace

- Place under the control of the organization where a person needs to be or to go by reason of work

2 Inform vs. Communicate



Inform: one way flow of information

Communicate: two way flow of information

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Issues unique to ISO 45001 OH&S MS

3 **Participation vs. Consultation**



Participation

Additional emphasis to be given to participation of non-managerial workers

- Mechanism for their participation and consultation
- Hazards identification and risk assessment
- Actions to control hazards and risks
- Identification of needs of competence/ training and evaluation of training
- Determining information that needs to be communication and how this should be done
- Determining control measures and their effective use
- Investigating incidents and non conformities and determining corrective actions

Consultation

Additional emphasis to be given to consultation of non-managerial workers

- Determining needs and expectations of interested parties
- Establishing policy
- Assigning organizational roles, responsibilities, accountabilities and authorities
- Determining how to apply legal and other requirements
- Establishing OH&S objectives
- Determining applicable controls for outsourcing, procurement and contractors
- Determining what needs to be monitoring, measured and evaluated
- Planning, establishing, implementing and maintaining an audit programme
- Establishing a continual improvement process

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Issues unique to ISO 45001 OH&S MS

4 Incident



Incident, nonconformity and corrective action

- Incident: occurrence(s) arising out of or in the course of work that could or does result in injury or ill-health
- Nonconformity: non-fulfilment of a requirement
- Corrective action: action to eliminate the cause(s) of a non-conformity or an incident and to prevent recurrence

5 OH&S



Annex SL's Terms & definitions	Terms & definitions unique to ISO 45001
Objectives: results to be achieved	**OH&S objectives:** objectives set by the organization to achieve specific results consistent with the OH&S policy
Risk: effect of uncertainty	**OH&S risk**: combination of the likelihood of occurrence of a work-related hazardous event or exposure(s), and the severity of injury or ill-health that can be caused by the event or exposures
	OH&S opportunities – circumstances or set of circumstances that can lead to improvement of OH&S performance
Performance: measurable result	**OH&S Performance**: performance related to the effectiveness of the prevention of injury and ill-health to workers and the provision of safe and healthy workplaces

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Conclusion

Same Annex SL High Level Structure

Facilitates integration of Quality, Environment and other management system standard

Need to take into consideration issues unique to OH&S

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Thank You

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Reference Slides

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SS 506: Part 1 and ISO/CD2 45001 – A Comparison

ISO 45001 structure	SS506:Part 1
1. Scope	1. Scope
2. Normative reference	2. Reference publication
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 4.4 OH&S management system	4. OSH management system requirements 4.1 General requirements
5. Leadership and worker participation 5.1 Leadership and commitment 5.2 OH&S Policy 5.3 Organizational roles, responsibilities, accountabilities and authorities 5.4 Participation, consultation and representation	4.2 OSH Policy
6. Planning 6.1 Actions to address risks and opportunities 6.2 OH&S Objectives and planning to achieve them	4.3 Planning 4.3.1 Hazards identification, risk assessment and determining controls 4.3.2 Legal and other requirements 4.3.3 Objectives and programmes

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SS 506: Part 1 and ISO/CD2 45001 – A Comparison

ISO 45001 structure	SS506:Part 1
7. Support 7.1 Resources 7.2 Competence 7.3 Awareness 7.4 Information and communication 7.5 Documented information	4.4 Implementation and Operation 4.4.1 Resources, roles and responsibilities, accountability and authority 4.4.2 Competency, training and awareness 4.4.3 Communication, participation and consultation 4.4.4 Documentation 4.4.5 Control of documents
8. Operations 8.1 Operational planning and control 8.2 Management of change 8.3 Outsourcing 8.4 Procurement 8.5 Contractors 8.6 Emergency preparedness and response	4.4.6 Operational control 4.4.7 Emergency preparedness and response
9. Performance Evaluation 9.1 Monitoring, measurement, analysis and evaluation 9.2 Internal audit 9.3 Management review	4.5 Checking 4.5.1 Performance measurement and monitoring 4.5.2 Evaluation of compliance 4.5.3 Incident investigation, nonconformity, corrective action and preventive action 4.5.4 Control of records 4.5.5 Internal audit
10. Improvement 10.1 Incident, nonconformity and corrective actions 10.2 Continual improvement	4.6 Management review

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