

Occupational health and safety management systems — Specification

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Contents

	Page
Foreword	<u>2</u>
1 Scope	4
2 Reference publications	4
3 Terms and definitions	4
4 OH&S management system elements	6
4.1 General requirements	7
4.2 OH&S policy	7
4.3 Planning	8
4.4 Implementation and operation	9
4.5 Checking and corrective action	12
4.6 Management review	<u>14</u>
Annex A (informative) Correspondence between OHSAS 18001, ISO 14001:1996 and ISO 9001:1994	<u>15</u>
<u>Bibliography</u>	<u>17</u>
<u>United Kingdom supplement</u>	<u>17</u>
Figure 1 - Elements of successful OH&S management	3
Figure 2 - OH&S Policy	4
Figure 3 - Planning	5
Figure 4 - Implementation and operation	6
Figure 5 - Checking and corrective action	9
Figure 6 - Management review	<u>11</u>

Foreword

This Occupational Health and Safety Assessment Series (OHSAS) specification and the accompanying OHSAS 18002, *Guidelines for the implementation of OHSAS 18001*, have been developed in response to urgent customer demand for a recognizable occupational health and safety management system standard against which their management systems can be assessed and certified.

OHSAS 18001 has been developed to be compatible with the ISO 9001:1994 (Quality) and ISO 14001:1996 (Environmental) management systems standards, in order to facilitate the integration of quality, environmental and occupational health and safety management systems by organizations, should they wish to do so.

This OHSAS specification will be reviewed or amended when considered appropriate. Reviews will be conducted when new editions of either ISO 9001 or ISO 14001 are published, to ensure continuing compatibility.

This OHSAS specification will be withdrawn on publication of its contents in, or as, an international standard.

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The development process used for OHSAS 18001 is open to other sponsors wishing to produce similar types of documents in association with BSI, provided that those sponsors are willing to comply with BSI's conditions for such documents.

Publications referred to during the development of this OHSAS specification

The following documents were referenced during the development of this OHSAS specification:

BS 8800:1996 *Guide to occupational health and safety management systems*

Technical Report NPR 5001:1997 *Guide to an occupational health and safety management system*

SGS & ISMOL ISA 2000:1997 *Requirements for Safety and Health Management Systems*

BVQI SafetyCert: *Occupational Safety and Health Management Standard*

DNV *Standard for Certification of Occupational Health and Safety Management Systems (OHSMS):1997*

Draft NSAI SR 320 *Recommendations for an Occupational Health and Safety (OH and S) Management System*

Draft AS/NZ 4801 *Occupational health and safety management systems — Specification with guidance for use*

Draft BSI PAS 088 *Occupational health and safety management systems*

UNE 81900 series of pre-standards on the prevention of occupational risks

Draft LRQA SMS 8800 *Health & safety management systems assessment criteria*

OHSAS 18001 will supersede some of these referenced documents.

OHSAS 18001 maintains a high level of compatibility with, and technical equivalence to UNE 81900.

This publication does not purport to include all necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this Occupational Health and Safety Assessment Series publication does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 14, an inside back cover and a back cover

1 Scope

This Occupational Health and Safety Assessment Series (OHSAS) specification gives requirements for an occupational health and safety (OH&S) management system, to enable an organization to control its OH&S risks and improve its performance. It does not state specific OH&S performance criteria, nor does it give detailed specifications for the design of a management system.

This OHSAS specification is applicable to any organization that wishes to:

- a) establish an OH&S management system to eliminate or minimize risk to employees and other interested parties who may be exposed to OH&S risks associated with its activities;
- b) implement, maintain and continually improve an OH&S management system;
- c) assure itself of its conformance with its stated OH&S policy;
- d) demonstrate such conformance to others;
- e) seek certification/registration of its OH&S management system by an external organization; or
- f) Make a self-determination and declaration of conformance with this OHSAS specification.

All the requirements in this OHSAS specification are intended to be incorporated into any OH&S management system. The extent of the application will depend on such factors as the OH&S policy of the organization, the nature of its activities and the risks and complexity of its operations.

This OHSAS specification is intended to address occupational health and safety rather than product and services safety.

2 Reference publications

Other publications that provide information or guidance are listed in the bibliography. It is advisable that the latest editions of such publications be consulted. Specifically, reference should be made to:

OHSAS 18002:1999, *Guidelines for the implementation of OHSAS 18001*.

BS 8800:1996, *Guide to occupational health and safety management systems*.

3 Terms and definitions

For the purposes of this OHSAS specification the following terms and definitions apply.

3.1

Accident

Undesired event giving rise to death, ill health, injury, damage or other loss

3.2

Audit

a systematic examination to determine whether activities and related results conform to planned arrangements and whether these arrangements are implemented effectively and are suitable for achieving the organization's policy and **objectives** (see **3.9**)

3.3

Continual improvement

Process of enhancing the OH&S management system, to achieve improvements in overall occupational health and safety performances, in line with the organization's OH&S policy

NOTE the process need not take place in all areas of activity simultaneously.

3.4

Hazard

source or situation with a potential for harm in terms of human injury or ill health, damage to property, damage to the workplace environment, or a combination of these

3.5

Hazard identification

Process of recognizing that a **hazard** (see **3.4**) exists and defining its characteristics

3.6

Incident

Event that gave rise to an accident or had the potential to lead to an accident.

NOTE An incident where no ill health, injury, damage, or other loss occurs is also referred to as a “near-miss”. The term “incident” includes “near-misses”.

3.7

Interested parties

Individual or group concerned with or affected by the OH&S performance of an organization

3.8

Non-conformance

any deviation from work standards, practices, procedures, regulations, management system performance etc. that could either directly or indirectly lead to injury or illness, property damage, damage to the workplace environment, or a combination of these

3.9

Objectives

Goals, in terms of OH&S performance, that an organization sets itself to achieve

NOTE Objectives should be quantified wherever practicable.

3.10

Occupational health and safety

Conditions and factors that affect the well-being of employees, temporary workers, contractor personnel, visitors and any other person in the workplace

3.11

OH&S management system

Part of the overall management system that facilitates the management of the OH&S risks associated with the business of the organization. This includes the organizational structure, planning activities, responsibilities, practices, procedures, processes and resources for developing, implementing, achieving, reviewing and maintaining the organization's OH&S policy

3.12

Organization

Company, operation, firm, enterprise, institution or association, or part thereof, whether incorporated or not, public or private, that has its own functions and administration

NOTE For organizations with more than one operating unit, a single operating unit may be defined as an organization.

3.13

Performance

Measurable results of the OH&S management system, related to the organization's control of health and safety risks, based on its OH&S policy and objectives

NOTE Performance measurement includes measurement of OH&S management activities and results.

3.14

Risk

Combination of the likelihood and consequence(s) of a specified hazardous event occurring

3.15

Risk assessment

Overall process of estimating the magnitude of risk and deciding whether or not the risk is tolerable

3.16

Safety

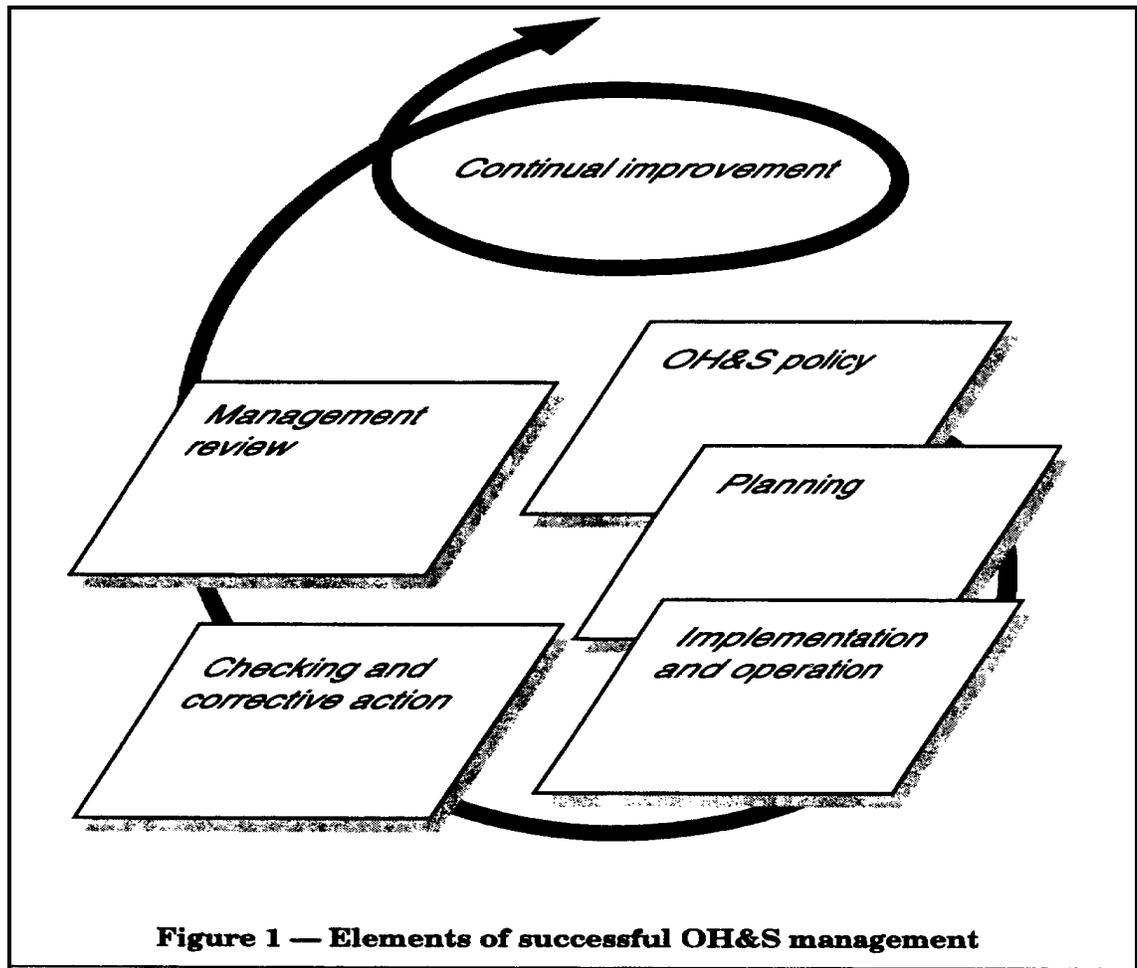
Freedom from unacceptable risk of harm [ISO/IEC Guide 2]

3.17

Tolerable risk

Risk that has been reduced to a level that can be endured by the organization having regard to its legal obligations and its own OH&S policy

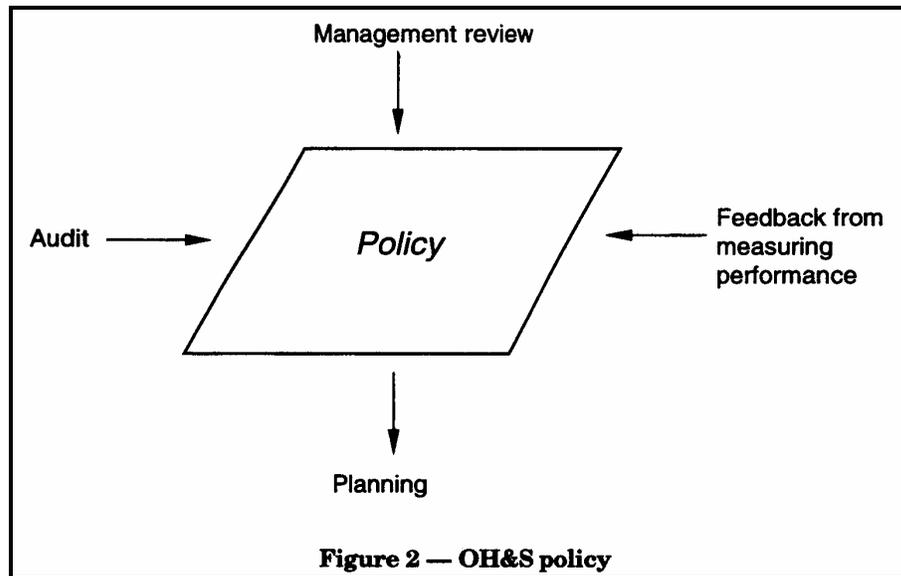
4 OH&S management system elements



4.1 General requirements

The organization shall establish and maintain an OH&S management system, the requirements for which are set out in clause 4.

4.2 OH&S policy

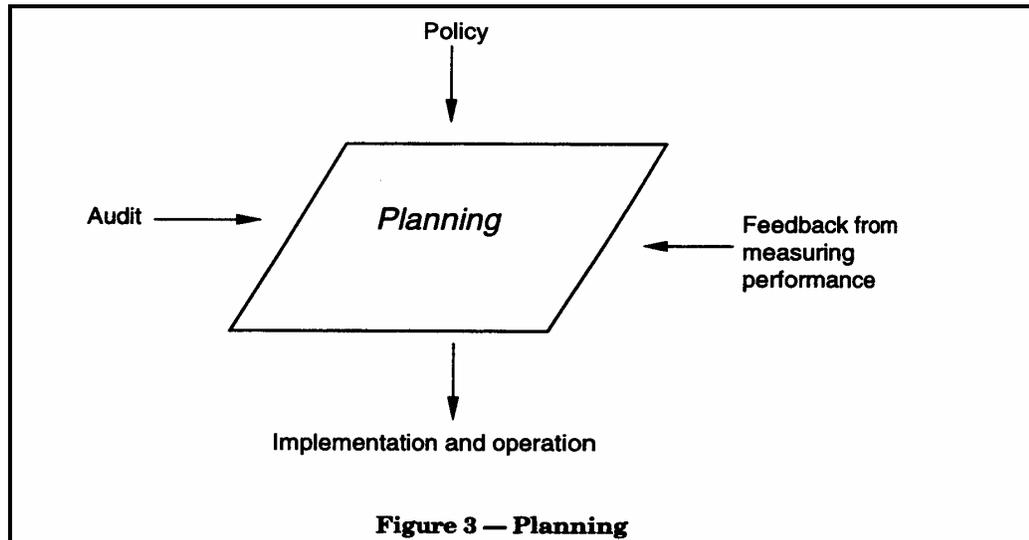


There shall be an occupational health and safety policy authorized by the organization's top management, that clearly states overall health and safety objectives and a commitment to improving health and safety performance.

The policy shall:

- a) be appropriate to the nature and scale of the organization's OH&S risks;
- b) include a commitment to continual improvement;
- c) include a commitment to at least comply with current applicable OH&S legislation and with other requirements to which the organization subscribes;
- d) be documented, implemented and maintained;
- e) be communicated to all employees with the intent that employees are made aware of their individual OH&S obligations;
- f) be available to interested parties; and
- g) be reviewed periodically to ensure that it remains relevant and appropriate to the organization.

4.3 Planning



4.3.1 *Planning for hazard identification, risk assessment and risk control*

The organization shall establish and maintain procedures for the ongoing identification of hazards, the assessment of risks, and the implementation of necessary control measures. These shall include:

- routine and non-routine activities;
- activities of all personnel having access to the workplace (including subcontractors and visitors);
- Facilities at the workplace, whether provided by the organization or others.

The organization shall ensure that the results of these assessments and the effects of these controls are considered when setting its OH&S objectives. The organization shall document and keep this information up to date.

The organization's methodology for hazard identification and risk assessment shall:

- be defined with respect to its scope, nature and timing to ensure it is proactive rather than reactive;
- provide for the classification of risks and identification of those that are to be eliminated or controlled by measures as defined in **4.3.3** and **4.3.4**;
- be consistent with operating experience and the capabilities of risk control measures employed;
- provide input into the determination of facility requirements, identification of training needs and/or development of operational controls;
- Provide for the monitoring of required actions to ensure both the effectiveness and timeliness of their implementation.

NOTE For further guidance on hazard identification, risk assessment and risk control, see OHSAS 18002.

4.3.2 *Legal and other requirements*

The organization shall establish and maintain a procedure for identifying and accessing the legal and other OH&S requirements that are applicable to it.

The organization shall keep this information up-to-date. It shall communicate relevant information on legal and other requirements to its employees and other relevant interested parties.

4.3.3 *Objectives*

The organization shall establish and maintain documented occupational health and safety objectives, at each relevant function and level within the organization.

When establishing and reviewing its objectives, an organization shall consider its legal and other requirements, its OH&S hazards and risks, its technological options, its financial, operational and business requirements, and the views of interested parties. The objectives shall be consistent with the OH&S policy, including the commitment to continual improvement.

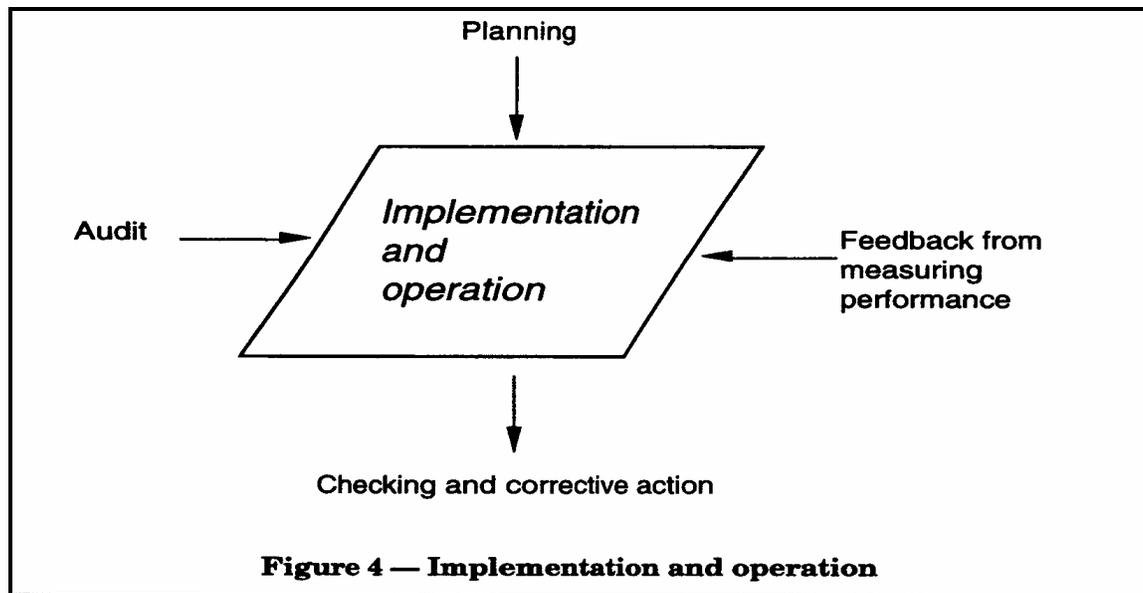
4.3.4 *OH&S management programme(s)*

The organization shall establish and maintain (an) OH&S management programme(s) for achieving its objectives. This shall include documentation of:

- a) the designated responsibility and authority for achievement of the objectives at relevant functions and levels of the organization; and
- b) the means and time-scale by which objectives are to be achieved.

The OH&S management programme(s) shall be reviewed at regular and planned intervals. Where necessary the OH&S management programme(s) shall be amended to address changes to the activities, products, services, or operating conditions of the organization.

4.4 *Implementation and operation*



4.4.1 *Structure and responsibility*

The roles responsibilities and authorities of personnel who manage, perform and verify activities having an effect on the OH&S risks of the organization's activities, facilities and processes, shall be

Defined, documented and communicated in order to facilitate OH&S management.

Ultimate responsibility for occupational health and safety rests with top management. The organization shall appoint a member of top management (e.g. in a large organization, a Board or executive committee member) with particular responsibility for ensuring that the OH&S management system is properly implemented and performing to requirements in all locations and spheres of operation within the organization.

Management shall provide resources essential to the implementation, control and improvement of the OH&S management system.

NOTE Resources include human resources and specialized skills, technology and financial resources.

The organization's management appointee shall have defined roles, responsibilities and authority for:

- a) ensuring that OH&S management system requirements are established, implemented and maintained in accordance with this OHSAS specification;
- b) Ensuring that reports on the performance of the OH&S management system are presented to top management for review and as a basis for improvement of the OH&S management system.

All those with management responsibility shall demonstrate their commitment to the continual improvement of OH&S performance.

4.4.2 Training, awareness and competence

Personnel shall be competent to perform tasks that may impact on OH&S in the workplace. Competence shall be defined in terms of appropriate education, training and/or experience.

It shall establish and maintain procedures to ensure that its employees working at each relevant function and level are aware of:

- the importance of conformance to the OH&S policy and procedures, and to the requirements of the OH&S management system;
- the OH&S consequences, actual or potential, of their work activities and the OH&S benefits of improved personal performance;
- their roles and responsibilities in achieving conformance to the OH&S policy and procedures and to the requirements of the OH&S management system, including emergency preparedness and response requirements (see **4.4.7**);
- the potential consequences of departure from specified operating procedures.

Training procedures shall take into account differing levels of:

- responsibility, ability and literacy; and
- Risk.

4.4.3 Consultation and communication

The organization shall have procedures for ensuring that pertinent OH&S information is communicated to and from employees and other interested parties.

Employee involvement and consultation arrangements shall be documented and interested parties informed.

Employees shall be:

- involved in the development and review of policies and procedures to manage risks;
- consulted where there are any changes that affect workplace health and safety;
- represented on health and safety matters; and
- Informed as to who is their employee OH&S representative(s) and specified management appointee (see **4.4.1**).

4.4.4 Documentation

The organization shall establish and maintain information, in a suitable medium such as paper or electronic form, that:

- a) describes the core elements of the management system and their interaction; and

- b) Provides direction to related documentation.

NOTE It is important that documentation is kept to the minimum required for effectiveness and efficiency.

4.4.5 Document and data control

The organization shall establish and maintain procedures for controlling all documents and data required by this OHSAS specification to ensure that:

- a) they can be located;
- b) they are periodically reviewed, revised as necessary and approved for adequacy by authorized personnel;
- c) current versions of relevant documents and data are available at all locations where operations essential to the effective functioning of the OH&S system are performed;
- d) obsolete documents and data are promptly removed from all points of issue and points of use or otherwise assured against unintended use; and
- e) archival documents and data retained for legal or knowledge preservation purposes or both, are suitably identified.

4.4.6 Operational control

The organization shall identify those operations and activities that are associated with identified risks where control measures need to be applied. The organization shall plan these activities, including maintenance, in order to ensure that they are carried out under specified conditions by:

- a) establishing and maintaining documented procedures to cover situations where their absence could lead to deviations from the OH&S policy and the objectives;
- b) stipulating operating criteria in the procedures;
- c) establishing and maintaining procedures related to the identified OH&S risks of goods, equipment and services purchased and/or used by the organization and communicating relevant procedures and requirements to suppliers and contractors;
- d) Establishing and maintaining procedures for the design of workplace, process, installations, machinery, operating procedures and work organization, including their adaptation to human capabilities, in order to eliminate or reduce OH&S risks at their source.

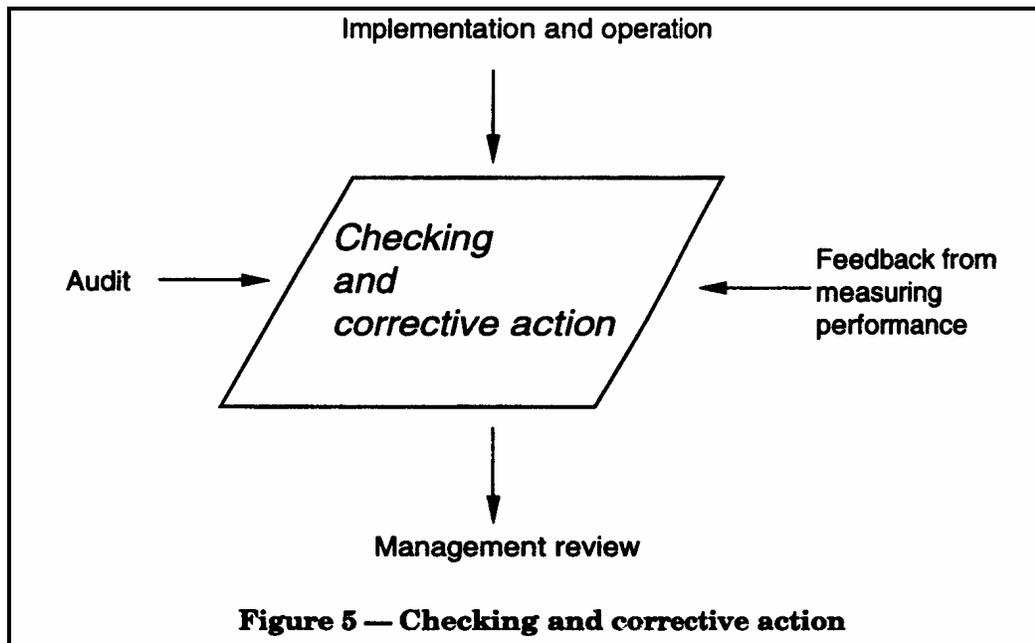
4.4.7 Emergency preparedness and response

The organization shall establish and maintain plans and procedures to identify the potential for, and responses to, incidents and emergency situations, and for preventing and mitigating the likely illness and injury that may be associated with them.

The organization shall review its emergency preparedness and response plans and procedures, in particular, after the occurrence of incidents or emergency situations.

The organization shall also periodically test such procedures where practicable.

4.5 Checking and corrective action



4.5.1 Performance measurement and monitoring

The organization shall establish and maintain procedures to monitor and measure OH&S performance on a regular basis. These procedures shall provide for:

- both qualitative and quantitative measures, appropriate to the needs of the organization;
- monitoring of the extent to which the organization's OH&S objectives are met;
- proactive measures of performance that monitor compliance with the OH&S management programme, operational criteria and applicable legislation and regulatory requirements;
- reactive measures of performance to monitor accidents, ill health, incidents (including near-misses) and other historical evidence of deficient OH&S performance;
- Recording of data and results of monitoring and measurement sufficient to facilitate subsequent corrective and preventative action analysis.

If monitoring equipment is required for performance measurement and monitoring, the organization shall establish and maintain procedures for the calibration and maintenance of such equipment. Records of calibration and maintenance activities and results shall be retained.

4.5.2 Accidents, incidents, non-conformances and corrective and preventive action

The organization shall establish and maintain procedures for defining responsibility and authority for:

- a) the handling and investigation of:
 - accidents;
 - incidents;
 - non-conformances;

- b) taking action to mitigate any consequences arising from accidents, incidents or non-conformances;

- c) the initiation and completion of corrective and preventive actions;
- d) Confirmation of the effectiveness of corrective and preventive actions taken.

These procedures shall require that all proposed corrective and preventive actions shall be reviewed through the risk assessment process prior to implementation.

Any corrective or preventive action taken to eliminate the causes of actual and potential non-conformances shall be appropriate to the magnitude of problems and commensurate with the OH&S risk encountered.

The organization shall implement and record any changes in the documented procedures resulting from corrective and preventive action.

4.5.3 Records and records management

The organization shall establish and maintain procedures for the identification, maintenance and disposition of OH&S records, as well as the results of audits and reviews.

OH&S records shall be legible, identifiable and traceable to the activities involved. OH&S records shall be stored and maintained in such a way that they are readily retrievable and protected against damage, deterioration or loss. Their retention times shall be established and recorded.

Records shall be maintained, as appropriate to the system and to the organization, to demonstrate conformance to this OHSAS specification.

4.5.4 Audit

The organization shall establish and maintain an audit programme and procedures for periodic OH&S management system audits to be carried out, in order to:

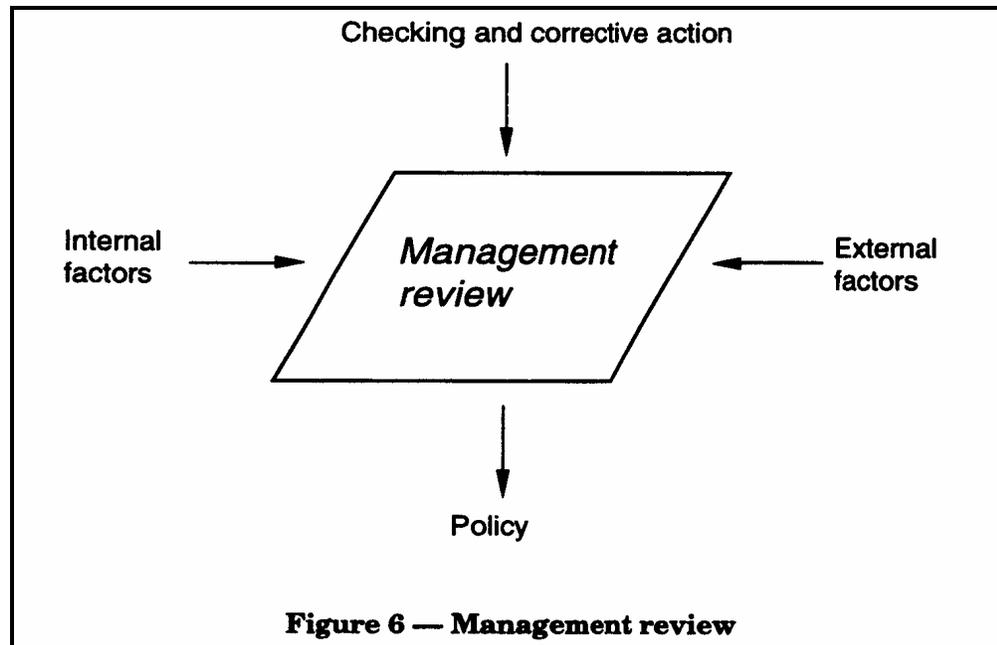
- a) determine whether or not the OH&S management system:
 - 1) conforms to planned arrangements for OH&S management including the requirements of this OHSAS specification;
 - 2) has been properly implemented and maintained; and
 - 3) is effective in meeting the organization's policy and objectives;
- b) review the results of previous audits;
- c) provide information on the results of audits to management.

The audit programme, including any schedule, shall be based on the results of risk assessments of the organization's activities, and the results of previous audits. The audit procedures shall cover the scope, frequency, methodologies and competencies, as well as the responsibilities and requirements for conducting audits and reporting results.

Wherever possible, audits shall be conducted by personnel independent of those having direct responsibility for the activity being examined.

NOTE The word "independent" here does not necessarily mean external to the organization.

4.6 Management review



The organization's top management shall, at intervals that it determines, review the OH&S management system, to ensure its continuing suitability, adequacy and effectiveness. The management review process shall ensure that the necessary information is collected to allow management to carry out this evaluation. This review shall be documented.

The management review shall address the possible need for changes to policy, objectives and other elements of the OH&S management system, in the light of OH&S management system audit results, changing circumstances and the commitment to continual improvement.

Annex A (informative)

Correspondence between OHSAS 18001, ISO 14001:1996 and ISO 9001:1994

Clause	OHSAS 18001	Clause	ISO 14001:1996	Clause	ISO 9001:1994
1	Scope	1	Scope	1	Scope
2	Reference publications	2	Normative references	2	Normative references
3	Terms and definitions	3	Definitions	3	Definitions
4	OH&S management system elements	4	Environmental management system requirements	4	Quality system requirements
4.1	General requirements	4.1	General requirements	4.2.1	General (1st sentence)
4.2	OH&S policy	4.2	Environmental policy	4.1.1	Quality policy
4.3	Planning	4.3	Planning	4.2	Quality system
4.3.1	Planning for hazard identification, risk assessment and risk control	4.3.1	Environmental aspects	4.2	Quality system
4.3.2	Legal and other requirements	4.3.2	Legal and other requirements		—
4.3.3	Objectives	4.3.3	Objectives and targets	4.2	Quality system
4.3.4	OH&S management programme(s)	4.3.4	Environmental management programme(s)	4.2	Quality system
4.4	Implementation and operation	4.4	Implementation and operation	4.2 4.9	Quality system Process control
4.4.1	Structure and responsibility	4.4.1	Structure and responsibility	4.1 4.1.2	Management responsibility Organization
4.4.2	Training, awareness and competence	4.4.2	Training, awareness and competence	4.18	Training
4.4.3	Consultation and communication	4.4.3	Communication		—
4.4.4	Documentation	4.4.4	Environmental management system documentation	4.2.1	General (without 1st sentence)
4.4.5	Document and data control	4.4.5	Document control	4.5	Document and data control

Correspondence between OHSAS 18001, ISO 14001:1996 and ISO 9001:1994

Clause	OHSAS 18001	Clause	ISO 14001:1996	Clause	ISO 9001:1994
4.4.6	Operational control	4.4.6	Operational control	4.2.2 4.3 4.4 4.6 4.7 4.8 4.9 4.15 4.19 4.20	Quality system procedures Contract review Design control Purchasing Customer supplied product Product identification and traceability Process control Handling, storage, packaging, preservation and delivery Servicing Statistical techniques
4.4.7	Emergency preparedness and response	4.4.7	Emergency preparedness and response		—
4.5	Checking and corrective action	4.5	Checking and corrective action		—
4.5.1	Performance measurement and monitoring	4.5.1	Monitoring and measurement	4.10 4.11 4.12	Inspection and testing Control of inspection, measuring and test equipment Inspection and test status
4.5.2	Accidents, incidents, non-conformances and corrective and preventive action	4.5.2	Non-conformance and corrective and preventive action	4.13 4.14	Control of non-conforming product Corrective and preventive action
4.5.3	Records and records management	4.5.3	Records	4.16	Control of quality records
4.5.4	Audit	4.5.4	Environmental management system audit	4.17	Internal quality audits
4.6	Management review	4.6	Management review	4.1.3	Management review
Annex A	Correspondence to ISO 14001, ISO 9001	Annex B	Correspondence to ISO 9001	—	—
—	Bibliography	Annex C	Bibliography	Annex A	Bibliography
—	<i>(See OHSAS 18002)</i>	Annex A	Guidance on the use of the specification	—	—

Bibliography

[1] ISO 9001:1994, *Quality systems: Model for quality assurance in design, development, production, installation and servicing.*

[2] ISO 14001:1996, *Environmental management systems — Specification with guidance for use.*

[3] ISO/IEC Guide 2:1996, *Standardization and related activities — General vocabulary.*

United Kingdom supplement

BSI standards publications

BRITISH STANDARDS INSTITUTION, LONDON W4 4AL

BS 8800:1996, *Guide to occupational health and safety management systems.*

BS EN 30011-1:1993, *Guidelines for auditing quality systems — Auditing.*

BS EN 30011-2:1993, *Guidelines for auditing quality systems — Qualification criteria for quality systems auditors.*

BS EN 30011-3:1993, *Guidelines for auditing quality systems — Managing an audit programme.*

BS EN ISO 9001:1994, *Quality systems: Model for quality assurance in design, development, production, installation and servicing.*

BS EN ISO 14001:1996, *Environmental management systems — Specification with guidance for use.*

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[1] Health and Safety Commission *Management of health and safety at work.* 1992. London: The Stationery Office.

[2] Health and Safety Executive *Successful health and safety management: HS(G) 65,* 1997 . London: The Stationery Office. The public enquiry point is:

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