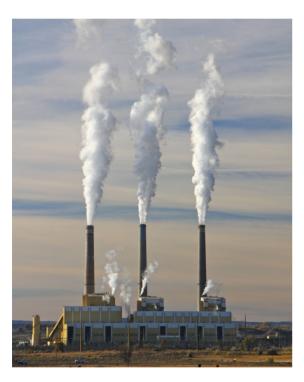




ISO 14001 Background

With rising public awareness of the need to protect our environment, governments and businesses are under increasing pressure to minimize their environmental footprint and promote sustainable development. The ISO 14001 - Environmental Management System (EMS) Standard has been developed to help organisations identify, manage and control the activities that have an environmental impact.

Industrial companies, service organisations, utility and public bodies worldwide have embraced ISO 14001 as the preferred model for environmental management and improved performance. The standard, which was published by ISO in 1996 was revised in 2015 and is compatible with other management standards particularly the widely used ISO 9001 Quality Management Standard.



ISO 14001:2015 Environmental management standard has the following companion standards:

- > I.S. EN ISO 14004:2016: Environmental management systems General guidelines on implementation
- > I.S. EN ISO 14031:2013: Environmental management Environmental performance evaluation Guidelines
- > I.S. EN ISO 14006:2011: Environmental management systems Guidelines for incorporating ecodesign
- > ISO 14001:2015 A practical guide for SMEs: This guide aims to help small businesses understand the requirements of an environmental management system and to help them implement ISO 14001 successfully.

Benefits for your organisation include:

- > Strengthened stakeholder confidence ISO 14001 reduces risk of liability, keeps ahead of legislation and regulatory developments and reduces the environmental burden through elimination, reduction and options
- > Greater competitive advantage_- your organisation would achieve improved cost control, improved organisational effectiveness and image of organisation
- > More secure long term viability this environmental management standard facilitates effective management, demonstrates environmental focus and introduces change in a controlled manner
- > Employee involvement and motivation ISO 14001 demonstrates innovation and a forward thinking approach to customers and prospective employees. It clearly defines employees' functions and establishes environmental awareness and clear methodologies
- > Sustainable development Goals 2020 Paris Agreement
- > Ease of integration with other management standards

Fundamental Elements of ISO 14001



The ciritical elements of an Environmental Management System are:

- > Defining environmental aspects
- > Analyzing relevant environmental impacts
- > Mitigating the impacts
- > Improving environmental performance
- > Considering the life-cycle perspective of the product, service or activity

According to ISO 14001, the concern for the environment should be concentrated on the surroundings in which the organization operates such as air, water, land, fauna, flora and human interactions. The clear definition and differentiation between activities, associated aspects and the resulting environmental impacts is very crucial to any effective environmental management system, this may cause organisations some difficulty in the initial development of their system. In order for a successfull environmental management system to be implemented, the above aspects should thus be dealt with with greater significance.

The Plan – Do – Check – Act (PDCA) cycle is the foundation of all ISO management system standards. The cycle ensures development, continuous improvement and control of the management system in question. It is a simple tool that ensures constant monitoring of your organization's effectiveness. It consists of the following:

Plan – environmental management system implementation using ISO 14000 guidelines

Do – conducting life cycle assessments and managing environmental aspects

Check – conducting audits and evaluating environmental performance

Act – using and maintaining the environmental management system through continuous improvement



The intention of ISO 14001:2015 is to provide a framework for a holistic, systematic and strategic approach to the organisation's environmental policy, plans and actions. An effective environmental management system based on ISO 14001 provides an organisation's top management with a roadmap which allows them to manage environmental issues effectively by prevention and identification of areas for cost savings in energy consumption, raw material usage and waste disposal.



Understanding the Detail

Plan - Environmental Policy

The first step to getting certified to the ISO 14001 Environmental Management Standard is to define an environmental policy and establish good environmental performance as a strategic objective. As with other ISO management systems it is important to your organisation that managers are fully focused and driven in achieving the relevant requirements.

The identification of operations that interact or might interact with the environment in the future is where your management team should start. The interactions will either be direct, such as in the manufacturing industry, or indirect, such as in the primary sector like raw materials.

In order to be successful, the goals and targets coming from your management team have to be measurable so they can be reviewed and improved by your internal audits.

The ISO 14000 guidelines will aid you in planning the required processes and systems for this environmental management standard. Some other aspects in the guidelines include:

- > Looking at your product, service or activity 'from cradle to grave'
- > Eco design guidelines
- > Considering environmental aspects in research & design
- > Addressing environmental issues in product standards

Don't worry if some aspects are not applicable to your organization, the ISO 14001 standard sets out broad principles and you should focus on the aspects that are relevant to you.

Do - Implementation

The second step in the PDCA process mainly involves the implementation of the system that has been planned by the management in the step before.

The implementation of an environmental management system involves the consideration of a life cycle perspective and the management of environmental aspects and greenhouse gases.

This stage also involves defining the resources and the members of your organization that are responsible for the maintainance and control of the various processes that are put in place. The members responsible for such processes should be trained and should have documentation for all procedures and processes including operational and documentation control and emergency procedures and responses.



Understanding the Detail



Check - Auditing

This stage of the process includes conducting internal audits and measuring environmental performance periodically, this ensures that your organisation's objectives and targets are being met. The review also includes measuring the green house gas performance. Your management team needs to make sure that the employees responsible for various processes are maintaining and monitoring them adequately.

In order to make the whole audit system more effective, you should keep monitoring the requirements limited to key process characteristics. Don't forget that the ISO 14001 standard is compatible, if your organization already has a quality system in place, so don't be afraid to integrate or make reference to it.

As is the case with other management system standards, there is a requirement to present documentation outlining the corrective and preventative actions for various setbacks or processes. This document ensures continuous incremental improvement and emphasises the environmental mindset the organisation needs on every level.



Act - Continual Improvement

In order to ensure continual improvement a planned management review has to be conducted. This involves:

- > Evaluating audits
- > Ensuring the meeting of your organisation's objectives and targets
- > Ensuring the meeting of ISO 14001 requirements
- > Devising improvements to the processes
- > Evaluating changing circumstances such as legal compliance obligations

The organisation should consider the results from analysis and evaluation of environmental performance, evaluation of compliance, internal audits and managment review when taking action to improve.

Examples of improvement include corrective action, continual improvement, breakthrough change, innovation and re-organisation.

One of the key purposes of an EMS is to act as a preventive tool. The concept of the preventive action is now captured in clauses 4.1 (understanding the organisation and its context) and 6.1 (actions to address risks and opportunities) of the ISO 14001:2015 standard.

The rate, extent and timescale of actions that support continual improvement are determined by the organisation. Environmental performance can be enhanced by applying the EMS as a whole or improving one or more of its elements.



Key Steps To Getting Certified for ISO 14001 by NSAI

1. Applying

The first step is to request a quotation for certification for your organisation, quotations are organisation specific and based on the NSAI request for quotation form. You will find this on our website or by contacing certification@nsai.ie for a copy. We will review all the information and provide you with a quotation. Our quotations cover the Registration process and the following three-year certification cycle and are calculated to make sure that every customer receives the certification service best suited to their needs

2. Gap Assessment

Applicants can proceed at their own pace, with assessment dates arranged to suit. If you are unsure whether you are ready to undergo assessment for registration, we can offer you a Gap Assessment, in which we:

- > Conduct an on-site analysis of your current system
- > Assess this against the relevant standard
- > Prepare a report highlighting the gaps between your current system and the standard.

A gap assessment is optional and is not a requirement of the certification process.

3. Preliminary assessment – stage 1

The Preliminary Assessment involves an inspection of your documentation and a review ranging over various areas including:

- > The proposed scope of your registration
- > The status of implementation of your management system
- > The appropriate regulatory and legal requirements
- > Your management policies and objectives
- > Whether the system addresses the key areas of your business
- > Your site-specific activities top level process review
- > Your key management elements, e.g. internal audits, reviews and complaints procedures
- > Your readiness to move onto Stage 2 of the assessment, the Registration Assessment.

The Preliminary Assessment takes place on-site. We recommend an interval of several weeks between the Preliminary Assessment and the Registration Assessment to allow time to resolve any issues arising from the Preliminary Assessment.

When the Preliminary Assessment is complete we will produce a brief report evaluating your readiness to proceed to the next stage. This report wil also identify any areas that need to be improved before moving to the Registration Assessment (Stage 2).

NOTE: The Registration Assessment (Stage 2) must be completed within 6 months of the Preliminary Assessment (Stage 1).

If the Preliminary Assessment finds that your organisation is not ready for full Registration Assessment, it becomes, in effect, a Gap Assessment. That means that a second Preliminary Assessment will have to be carried out.

Key Steps To Getting Certified for ISO 14001 by NSAI



4. Registration assessment – stage 2

The Registration Assessment (Stage 2) involves a full review of your management system, including relevant records and documents. Its purpose is to confirm that your management system is properly controlled and has predictable outcomes.

At the end of the Registration Assessment, NSAI issues a detailed report, together with the outcome (whether to recommend registration or not). We will identify any issues found during the assessment. You in turn will be expected to submit an action plan detailing what changes are planned to be made to the management system to eliminate or reduce the risk of the same issues re-occurring.

5. Surveillance and re-assessment

At least once a year, NSAI visits each registered company to ensure the management system is being maintained and is achieving its expected outcomes. During each visit, part of the management system is reviewed in depth.

Certificates expire every three years, with the expiry date indicated on the certificate. Before that date, we undertake a detailed reassessment, reviewing the performance of the whole management system to make sure every element is performing satisfactorily. The results of the previous visits are taken into account.

During the period of registration, changes are inevitable. NSAI works with each registered organization to make sure the management system remains sound. Normally, change can be reviewed and assessed during routine surveillance visits.

The EMS must be maintained during periods of change.

For further information contact:

NSAI

Certification Department
1 Swift Square, Northwood,
Santry, Dublin 9

T. 01 8073800

E. certification@nsai.ie

W. www.nsai.ie

Information on other management system standards:

NSAI.ie/management-systems.aspx

To purchase a Standard or publication please contact our our standard sales partner SAI Global at:

www.standards.ie / Tel: 01 857 6730

Additional Information

Enterprise Ireland lean offers www.enterprise-ireland.com/en/Productivity/

ISO Website www.iso.org