

The background of the slide features a repeating pattern of stylized, light-colored leaves and branches on a muted blue background. The leaves are elongated and pointed, with some showing internal vein details. The branches are thin and curved, creating a natural, organic feel.

# **Environmental Management Systems EMS**

**ISO 14001: 2015**

# CONTENTS





Scope

# SCOPE

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This International Standard is applicable to any organization, regardless of size, type and nature, and applies to the environmental aspects of its activities, products and services

# Normative References

# NORMATIVE REFERENCES

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No normative reference



# Terms and Definitions

# TERMS RELATED TO ORGANIZATION AND LEADERSHIP

## Management System

- *Set of interrelated or interacting elements of an organization to establish policies and objectives and processes to achieve those objectives*

## Environmental Management System

- *Part of the management system used to manage environmental aspects, fulfil compliance obligations, and address risks and opportunities*

## Environmental Policy

- *Intentions and direction of an organization related to environmental performance, as formally expressed by its top management*

## Organization

- *Person or group*



# TERMS RELATED TO ORGANIZATION AND LEADERSHIP

## Top Management

- *Person or group of people who directs and controls an organization at the highest level*

## Interested Party

- *Person or organization that can affect, be affected by, or perceive itself to be affected by a decision or activity*

# TERMS RELATED TO **PLANNING**

## Environment

- *Surroundings in which an organization operates, including air, water, land, natural resources, flora, fauna, humans and their interrelationships*

## Environmental Aspect

- *Element of an organization's activities or products or services that interacts or can interact with the environment*

## Environmental Condition

- *State or characteristic of the environment as determined at a certain point in time*

## Environmental Impact

- *Change to the environment, whether adverse or beneficial. wholly or partially resulting from an organization's environmental aspects*

# TERMS RELATED TO PLANNING

## Objective

- *Result to be achieved*

## Environmental Objective

- *Objective set by the organization consistent with its environmental policy*

## Prevention of Pollution

- *Use of processes, practices, techniques, materials, products, services or energy to avoid, reduce or control (separately or in combination) the creation, emission or discharge of any type of pollutant or waste, in order to reduce adverse environmental impacts*

## Requirement

- *Need or expectation that is stated, generally implied or obligatory*

# TERMS RELATED TO SUPPORT AND OPERATION

## Competence

- *Ability to apply knowledge and skills to achieve intended results*

## Documented Information

- *Information required to be controlled and maintained by an organization and the medium on which it is contained*

## Life Cycle

- *Consecutive and interlinked stages of a product (or service) system, from raw material acquisition or generation from natural resources to final disposal*

## TERMS RELATED TO **SUPPORT AND OPERATION**

### Outsource

- *Make an arrangement where an external organization performs part of an organization's function or process*

### Process

- *Set of interrelated or interacting activities which transforms inputs into outputs*

# TERMS RELATED TO PERFORMANCE EVALUATION AND IMPROVEMENT

## Audit

- *Systematic, independent and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which the audit criteria are fulfilled*

## Conformity

- *Fulfilment of a requirement*

## Nonconformity

- *Non-fulfilment of a requirement*

## Corrective Action

- *Action to eliminate the cause of a nonconformity and to prevent recurrence*

# TERMS RELATED TO PERFORMANCE EVALUATION AND IMPROVEMENT

## Continual Improvement

- *Recurring activity to enhance performance*

## Effectiveness

- *Extent to which planned activities are realized and planned results achieved*

## Indicator

- *Measurable representation of the condition or status of operations, management or conditions*

## Monitoring

- *Determining the status of a system, a process or an activity*

# TERMS RELATED TO PERFORMANCE EVALUATION AND IMPROVEMENT

## Measurement

- *Process to determine a value*

## Performance

- *Measurable result*

## Environmental Performance

- *Performance related to the management of environmental aspects*



# Context of the organization

# Context of the organization

4.1 Understanding the organization and its context



```
graph TD; A[4.1 Understanding the organization and its context] --> B[4.2 Understanding the needs and expectations of interested parties]; B --> C[4.3 Determining the scope of the environmental management system]; C --> D[4.4 Environmental management system];
```

The diagram illustrates a four-step process for establishing the context of an organization. It begins with '4.1 Understanding the organization and its context' in an orange box, followed by '4.2 Understanding the needs and expectations of interested parties' in a grey box, then '4.3 Determining the scope of the environmental management system' in a yellow box, and finally '4.4 Environmental management system' in a blue box. Each step is connected to the next by a downward-pointing arrow, indicating a sequential flow.

4.2 Understanding the needs and expectations of interested parties

4.3 Determining the scope of the environmental management system

4.4 Environmental management system



**Leadership**

# Leadership

5.1 Leadership and commitment

5.2 Environmental policy

5.3 Organizational roles, responsibilities and authorities

# Planning

# Planning



6.1 Actions to address risks  
and opportunities



6.2 Environmental objectives  
and planning to achieve them



**Support**

# Support



7.1 Resources



7.2 Competence



7.3 Awareness



7.4 Communication



7.5 Documented information





Operation

# Operation

8.1 Operational  
planning and  
control

8.2 Emergency  
preparedness  
and response

# Performance evaluation



# Performance evaluation



9.1 Monitoring,  
measurement, analysis  
and evaluation



9.2 Internal audit



9.3 Management review



**Improvement**

# Improvement

10.1 General



10.2 Nonconformity and  
corrective action



10.3 Continual improvement

The background consists of a dark blue field with a large, light blue semi-circle on the right side. A vertical dark blue bar is on the far right, and a thin dark blue vertical line is on the far left.

**Reference:  
ISO 14001: 2015**

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The background consists of a dark blue field with a lighter blue circular shape on the right side and a vertical blue bar on the left.

# Thank You!

#TQMforbetterFuture