

The following documents describe the US standards strategy followed by a series of brief abstracts on related International Management System Standards. These are key standards applicable to most industries, especially the electronics industry (e.g., quality, environmental, security, risk, sustainability and certification).

United States Standards Strategy — 2015

DESCRIPTION / ABSTRACT:

The *United States Standards Strategy* serves as a statement of purpose and ideals resulting from a reexamination of the principles and strategy that guide how the United States develops standards and participates in the international standards-setting process. It provides a framework that can be used by all interested parties to further advance trade issues, and a vision for the future of the U.S. standards system in today's globally competitive economy.

A downloadable copy is available at the American National Standards Institute website at the following link:

https://www.ansi.org/standards_activities/nss/usss?menuid=3

ISO 9001 — 5th Edition, September 15, 2015

Quality management systems — Requirements

DESCRIPTION / ABSTRACT:

This International Standard specifies requirements for a quality management system when an organization:

a) needs to demonstrate its ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements, and

b) aims to enhance customer satisfaction through the effective application of the system, including processes for improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements.

All the requirements of this International Standard are generic and are intended to be applicable to

any organization, regardless of its type or size, or the products and services it provides.

NOTE 1 In this International Standard, the terms "product" or "service" only apply to products and services intended for, or required by, a customer.

NOTE 2 Statutory and regulatory requirements can be expressed as legal requirements.

ISO 14001 — 3rd Edition, September 15, 2015

Environmental management systems — Requirements with guidance for use

DESCRIPTION / ABSTRACT:

This International Standard specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance. This International Standard is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability.

This International Standard helps an organization achieve the intended outcomes of its environmental management system, which provide value for the environment, the organization itself and interested parties. Consistent with the organization's environmental policy, the intended outcomes of an environmental management system include:

- enhancement of environmental performance;
- fulfilment of compliance obligations;
- achievement of environmental objectives.

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 that the organization determines it can either control or influence considering a life cycle perspective. This International Standard does not state specific environmental performance criteria.

This International Standard can be used in whole or in part to systematically improve environmental management. Claims of conformity to this International Standard, however, are not acceptable unless all its requirements are incorporated into an organization's environmental management system and fulfilled without exclusion.

ISO/IEC 20000-1 — 3rd Edition, September 2018

Information technology - Service management - Part 1: Service management system requirements

DESCRIPTION / ABSTRACT:

This document specifies requirements for an organization to establish, implement, maintain and continually improve a service management system (SMS). The requirements specified in this document include the planning, design, transition, delivery and improvement of services to meet the service requirements and deliver value. This document can be used by:

- a) a customer seeking services and requiring assurance regarding the quality of those services;
- b) a customer requiring a consistent approach to the service lifecycle by all its service providers, including those in a supply chain;
- c) an organization to demonstrate its capability for the planning, design, transition, delivery and improvement of services;
- d) an organization to monitor, measure and review its SMS and the services;
- e) an organization to improve the planning, design, transition, delivery and improvement of services through effective implementation and operation of an SMS;
- f) an organization or other party performing conformity assessments against the requirements specified in this document;
- g) a provider of training or advice in service management.

The term “service” as used in this document refers to the service or services in the scope of the SMS. The term “organization” as used in this document refers to the organization in the scope of the SMS that manages and delivers services to customers. The organization in the scope of the SMS can be part of a larger organization, for example, a department of a large corporation. An organization or part of an organization that manages and delivers a service or services to internal or external customers can also be known as a service provider. Any use of the terms “service” or “organization” with a different intent is distinguished clearly in this document.

Application

All requirements specified in this document are generic and are intended to be applicable to all organizations, regardless of the organization’s type or size, or the nature of the services delivered. Exclusion of any of the requirements in Clauses 4 to 10 is not acceptable when the organization claims conformity to this document, irrespective of the nature of the organization.

Conformity to the requirements specified in this document can be demonstrated by the organization itself showing evidence of meeting those requirements.

The organization itself demonstrates conformity to Clauses 4 and 5. However, the organization can be supported by other parties. For example, another party can conduct internal audits on behalf of the organization or support the preparation of the SMS.

Alternatively, the organization can show evidence of retaining accountability for the requirements

specified in this document and demonstrating control when other parties are involved in meeting the requirements in Clauses 6 to 10 (see 8.2.3). For example, the organization can demonstrate evidence of controls for another party who is providing infrastructure service components or operating the service desk including the incident management process.

The organization cannot demonstrate conformity to the requirements specified in this document if other parties are used to provide or operate all services, service components or processes within the scope of the SMS. The scope of this document excludes the specification for products or tools. However, this document can be used to help the development or acquisition of products or tools that support the operation of an SMS.

ISO 20121 — 1st Edition, June 15, 2012

Event sustainability management systems - Requirements with guidance for use

DESCRIPTION / ABSTRACT:

This International Standard specifies requirements for an event sustainability management system for any type of event or event-related activity, and provides guidance on conforming to those requirements.

This International Standard is applicable to any organization that wishes to:

- establish, implement, maintain and improve an event sustainability management system;
- ensure that it is in conformity with its stated sustainable development policy;
- demonstrate voluntary conformity with this International Standard by
 - first party (self-determination and self-declaration),
 - second party (confirmation of conformance by parties having an interest in the organization, such as clients, or by other persons on their behalf), or
 - an independent third party (e.g., a certification body).

This International Standard has been designed to address the management of improved sustainability throughout the entire event management cycle.

Additional guidance and information is provided in the annexes to support its implementation.

ISO/IEC 27001 — 2nd Edition, October 1, 2013

Information technology - security techniques - information security management systems – requirements

DESCRIPTION / ABSTRACT:

This International Standard has been prepared to provide requirements for establishing, implementing, maintaining and continually improving an information security management system. The adoption of an information security management system is a strategic decision for an organization. The establishment and implementation of an organization's information security management system is influenced by the organization's needs and objectives, security requirements, the organizational processes used and the size and structure of the organization. All of these influencing factors are expected to change over time.

The information security management system preserves the confidentiality, integrity and availability of information by applying a risk management process and gives confidence to interested parties that risks are adequately managed.

ISO 28000 — 1st Edition, September 15, 2007

Specification for security management systems for the supply chain

DESCRIPTION / ABSTRACT:

This International Standard specifies the requirements for a security management system, including those aspects critical to security assurance of the supply chain. Security management is linked to many other aspects of business management. Aspects include all activities controlled or influenced by organizations that impact on supply chain security. These other aspects should be considered directly, where and when they have an impact on security management, including transporting these goods along the supply chain.

This International Standard is applicable to all sizes of organizations, from small to multinational, in manufacturing, service, storage or transportation at any stage of the production or supply chain that wishes to:

- a) establish, implement, maintain and improve a security management system;
- b) assure conformance with stated security management policy;
- c) demonstrate such conformance to others;
- d) seek certification/registration of its security management system by an Accredited third party Certification Body; or
- e) make a self-determination and self-declaration of conformance with this International Standard.

There are legislative and regulatory codes that address some of the requirements in this International Standard.

It is not the intention of this International Standard to require duplicative demonstration of conformance.

Organizations that choose third party certification can further demonstrate that they are contributing significantly to supply chain security.

ISO 31000 — 2nd Edition, February 2018

Risk management – Guidelines

DESCRIPTION / ABSTRACT:

This document provides guidelines on managing risk faced by organizations. The application of these guidelines can be customized to any organization and its context.

This document provides a common approach to managing any type of risk and is not industry or sector specific.

This document can be used throughout the life of the organization and can be applied to any activity, including decision-making at all levels.

ISO 50001 — 2nd Edition, August 2018

Energy management systems - Requirements with guidance for use

DESCRIPTION / ABSTRACT:

This document specifies requirements for establishing, implementing, maintaining and improving an energy management system (EnMS). The intended outcome is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance and the EnMS. This document:

- a) is applicable to any organization regardless of its type, size, complexity, geographical location, organizational culture or the products and services it provides;
- b) is applicable to activities affecting energy performance that are managed and controlled by the organization;

- c) is applicable irrespective of the quantity, use, or types of energy consumed;
- d) requires demonstration of continual energy performance improvement, but does not define levels of energy performance improvement to be achieved;
- e) can be used independently, or be aligned or integrated with other management systems.

Annex A provides guidance for the use of this document. Annex B provides a comparison of this edition with the previous edition.