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INTERNATIONAL STANDARD

NORME INTERNATIONALE

HORIZONTAL STANDARD
NORME HORIZONTALE

**Preparation of information for use (instructions for use) of products –
Part 1: Principles and general requirements**

**Élaboration des informations d'utilisation (instructions d'utilisation)
des produits –
Partie 1: Principes et exigences générales**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PREPARATION OF INFORMATION FOR USE
(INSTRUCTIONS FOR USE) OF PRODUCTS –****Part 1: Principles and general requirements**

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International Standard IEC/IEEE 82079-1 has been prepared by IEC technical committee 3: Information structures and elements, identification and marking principles, documentation and graphical symbols, in cooperation with the Computer Society, Systems and Software Engineering Standards Committee of the IEEE, under the IEC/IEEE Dual Logo Agreement and in cooperation with subcommittee 1: Basic conventions of ISO technical committee 10: Technical product documentation.

It is published as an IEC/ISO/IEEE triple logo standard.

It has the status of a horizontal standard in accordance with IEC Guide 108 [59].

This second edition cancels and replaces the first edition published in 2012. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) The structure of this document has been rearranged in order to facilitate application of the standard and to make it easier to find information. Where possible, the language has been simplified.
- b) Information for use is introduced as a generic term. Instructions for use is a synonym for information for use. Step-by-step instructions is used as a subset of information for use.
- c) Clause 5 (principles) is revised and focuses on the purpose of information for use, the quality of information and the process for management of information.
- d) The process for preparation of information for use is integrated in the normative part and addressed comprehensively.
- e) Empirical methods for the evaluation of information for use are described in the normative part.
- f) The professional competencies needed for the preparation of information for use are addressed more comprehensively.
- g) Some aspects have been added to general requirements for information for use for complex systems of systems.
- h) Consideration is given to instructions for self-assembly products.
- i) An informative annex providing guidance on the fulfilment of specified requirements is introduced.

The text of this International Standard is based on the following IEC documents:

FDIS	Report on voting
3/1390/FDIS	3/1401/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

A list of all parts of the 82079 International Standard, published under the general title *Preparation of information for use (instructions for use) of products*, can be found on the IEC website.

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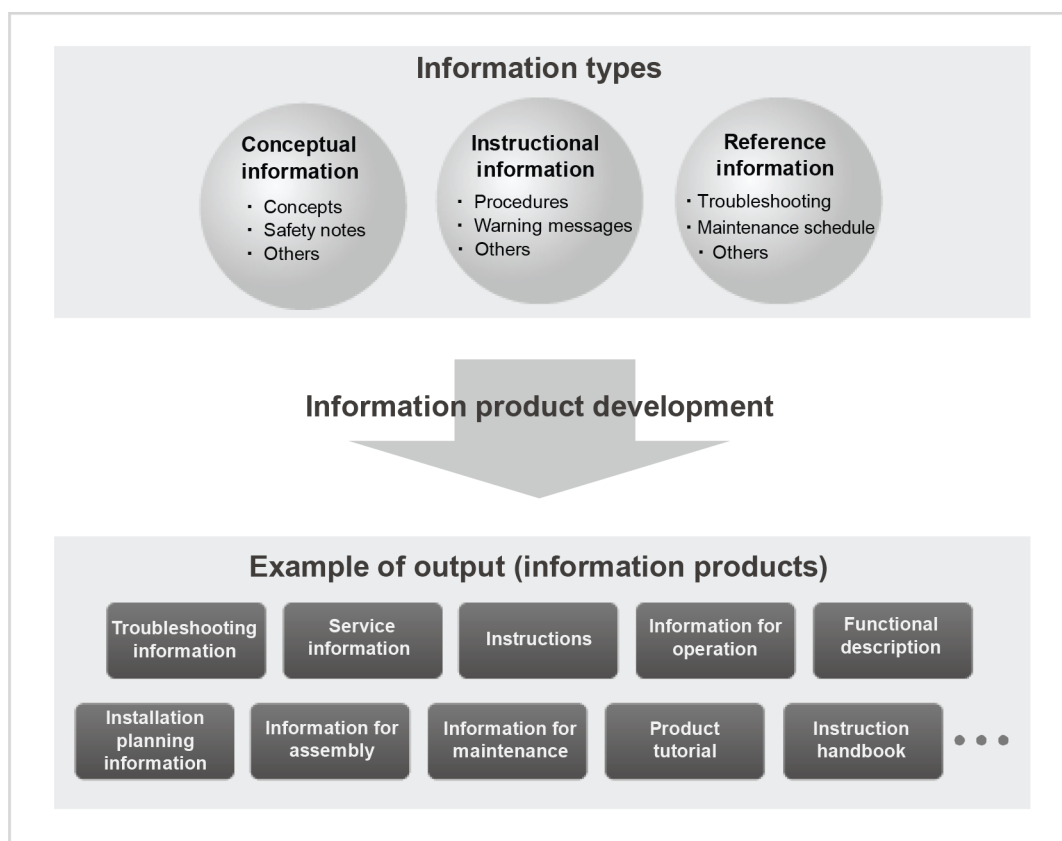
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INTRODUCTION

Information for use is a part of any type of product it supports. A product can be a system, a service, goods, software, information, or a combination thereof. People depend on the information provided to use products safely, effectively, and efficiently, unless they receive training from a human instructor or unless the functions are entirely intuitive. Confusing product information and inadequate instructions are major sources of frustration for consumers and skilled workers. Defective information can pose a risk of harm or loss, leading to prosecution or liability claims against the supplier or brand owner.

Information for use consists of three information types: conceptual information that the target audience needs to understand, instructional information to be followed or considered, and reference information to be consulted when needed. The information for use can include various information products that are selected, presented, and delivered on different media to meet the needs of different target audiences (Figure 1).



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Figure 1 – Concept of information for use

Some product-specific information requirements (e.g. the wording of warnings or positioning of labels) are specified in standards for individual types or classes of products, but these do not provide a complete set of requirements for information for use. This document gives principles and general requirements for conveying information to users that are as applicable to complex and safety-critical systems (e.g. industrial plants), as they are to simple consumer products (e.g. a can of paint), to software, and to specialized testing equipment. Information for use is needed for anyone (skilled and unskilled) who encounters a product for the first time: whether to assemble from a kit, install, operate, maintain, or dispose of it.

The principles for preparing information for use of products are horizontally applicable across product sectors because all target audiences are human and subject to human error. The techniques found to be most effective to help such audiences to absorb new information are generally similar, as are their capabilities for misunderstanding language or images. What

works best in information gathering and delivery (e.g. in content, wording, graphics, testing, and management of the whole process) has emerged from experience and practice in the fields of human factors and technical communication. This document is applicable on its own or can be referenced in product standards that include requirements to provide the target audience with information for use, for example, step-by-step instructions or other information products.

This document is addressed to those who prepare information for use; managers of organizations that produce or purchase products, systems, or services; human factors consultants; and product enforcement agencies.

It covers the following aspects:

- information content: conceptual information the target audiences need to understand, procedures they have to undertake, and the reference information they need to consult at some point;
- options for information to be provided as a single deliverable (e.g. a product manual) or across several types of information product, such as labelling on the product itself or packaging, accompanying electronic files, sheets, a website, booklets, printable files, videos, or searchable databases;
- effective use of language, text, illustrations, symbols, audio or video to communicate elements of information;
- processes and competencies involved in establishing content and preparing output; and
- means of assessing the fulfilment of requirements in accordance with this document.

PREPARATION OF INFORMATION FOR USE (INSTRUCTIONS FOR USE) OF PRODUCTS –

Part 1: Principles and general requirements

1 Scope

This part of 82079 International Standard provides principles and general requirements for information for the use of products.

Information for use is:

- necessary for the safe use of a product;
- helpful for the efficient and effective use of a product; and
- often necessary to fulfil market, legal, and regulatory obligations.

Products include, for example:

- industrial products (e.g. machinery, components, devices, and equipment);
- consumer products (e.g. household appliances, audio-visual devices, communication devices, and do-it-yourself products);
- medical devices, equipment and systems;
- complex systems of systems (e.g. industrial plants, refineries, production sites, and data centres);
- means of transport (e.g. cars, trucks, ships, and airplanes);
- application software (e.g. office software and web applications);
- software for operation and automatic control of systems; and
- technical services.

Information for use of products applies to phases of the product life cycle such as transport, assembly, installation, commissioning, operation, monitoring, troubleshooting, maintenance, repair, decommissioning, and disposal, and the appropriate tasks performed by skilled and unskilled persons.

This document provides the common and fundamental aspects serving as the binding and generic framework for prospective additional parts of this document.

This document applies to information for use whether provided as electronic or printed information products, for example:

- service information for machinery, provided as PDF file for web download for trained service technicians;
- information for operation of software, provided electronically with the software as an online help;
- troubleshooting information for an operator, on a machine's on-screen display;
- functional description of a medical device on a website;
- information for assembly, printed and provided in the packaging of a piece of furniture for consumers;
- printed information for maintenance for an automatic coffee machine;