
Safety of machinery — Rules for drafting and presentation of safety standards

*Sécurité des machines — Règles pour l'élaboration et la présentation
des normes de sécurité*



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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General principles	3
4.1 All safety standards	3
4.2 Type-B standards	3
4.3 Type-C standards	4
4.4 Need for a type-B standard	6
4.5 Deviations in a type-C standard	6
5 Principles to be considered before and during drafting process	6
5.1 General	6
5.2 Determination of necessity for standardization and/or revision	6
5.3 Definition of scope	7
5.4 Identification of hazards, hazardous situations or hazardous events	7
5.5 Estimation and evaluation of risk(s) generated by hazard(s)	7
5.6 Identification of risk reduction objectives	8
5.7 Determination of safety requirements and/or protective/risk reduction measures for eliminating hazards and/or limiting risks	8
5.8 Verification of compliance with safety requirements and/or protective/risk reduction measures	8
6 Format of a safety standard	9
6.1 General	9
6.2 <i>Foreword</i>	9
6.3 <i>Introduction</i>	9
6.4 <i>Scope</i>	10
6.5 <i>Normative references</i>	11
6.6 <i>Terms and definitions [symbols and abbreviated terms]</i>	11
6.7 <i>Safety requirements and/or protective/risk reduction measures</i>	12
6.8 <i>Verification of the safety requirements and/or protective/risk reduction measures</i>	13
6.9 <i>Information for use</i>	14
6.10 Annexes	15
Annex A (normative) Procedure to be followed if type-B standards do not exist	16
Annex B (informative) Model format of a type-C International Standard	17
Bibliography	21

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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

Draft Guides adopted by the responsible Committee or Group are circulated to the member bodies for voting. Publication as a Guide requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO Guide 78 was prepared by ISO/TC 199, *Safety of machinery*, on behalf of the ISO Technical Management Board (TMB).

In addition to a number of editorial changes, the main revisions with respect to the previous edition (ISO Guide 78:2008) are as follows:

- updating of references and their associated requirements with regard to ISO 12100 and the ISO/IEC Directives, Part 2;
- addition of a further question to the checklist to be used to determine the necessity for standardization and/or revision [5.2, question e)];
- extension of the minimum statement to be given in the Introduction of type B- and type C- standards by a general notice concerning the document's relevance, in particular, for those stakeholder groups representing the market players with regard to machinery safety (6.3.2 and 6.3.3);
- addition of the term "risk reduction measure" as a synonym to the term "protective measure" throughout the document;
- replacement of the term "optional element" by "conditional element" and "compulsory element" by "mandatory element" in accordance with the latest edition of the ISO/IEC Directives, Part 2;
- change in the title of Annex A;
- addition of Annex D concerning significant technical changes between a standard and its previous edition, to be added in those cases where the significant technical changes are not already stated in the Foreword.

Introduction

As a response to the increased global trade in machinery, the relevant ISO Technical Committees have undertaken publication of a series of related machinery safety standards. It has thus been necessary to develop rules for the preparation, drafting and presentation of such safety standards, supplementing the ISO/IEC Directives, Part 2, which sets out general principles and requirements for all International Standards.

This Guide provides those rules. It is intended for use by Technical Committees writing type-B and type-C standards in the field of safety of machinery (as defined in 3.2 and 3.3). It both makes use of, and refers to, the principles and concepts established in ISO 12100, and also takes into account, as far as possible, ISO/IEC Guide 51.

International Standards prepared according to this Guide are intended as a means for supporting national or regional technical regulations (for example, legislation) for machinery safety according to the principles of UNECE Recommendation L. In order that machinery safety standards be able to support these technical regulations, the drafting of the standards can necessitate compliance with specific requirements additional to this Guide, in as far as any such additional requirements are accepted by ISO as not contradicting the content of this Guide. For example, in order to support European legislation, the *Guidelines for the implementation of the agreement on technical co-operation between ISO and CEN (Vienna Agreement)* are additionally applicable.

Safety of machinery — Rules for drafting and presentation of safety standards

1 Scope

This Guide presents rules for the drafting and presentation of International Standards dealing with machinery safety and their revisions, primarily to achieve consistency and acceptable quality of the various standards to be prepared.

It also gives requirements on the criteria for the selection of new work items and for procedures to prepare, produce or revise standards in an efficient and effective way.

This Guide gives requirements that are additional to the ISO/IEC Directives, Part 2, when this is necessary owing to the special requirements of machinery safety standards.

This Guide is primarily intended for the drafting of type-C standards. It is also applicable to the drafting of type-B standards; however, the foreseeable variation in the format of these standards prevents general application. When its requirements are specific to type-B standards, this is indicated.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction*

ISO/IEC Directives, Part 2:2011, *Rules for the structure and drafting of International Standards*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in the ISO/IEC Directives, Part 2, and ISO 12100, and the following apply.

3.1

type-A standard

basic safety standard

standard giving basic concepts, principles for design and general aspects that can be applied to machinery

Note 1 to entry: See ISO 12100:2010, *Introduction*.

3.2

type-B standard

generic safety standard

standard dealing with one safety aspect or one type of safeguard that can be used across a wide range of machinery

Note 1 to entry: See ISO 12100:2010, *Introduction*.

3.2.1

type-B1 standard

type-B standard on particular safety aspects (for example, safety distances, surface temperature, noise)

Note 1 to entry: See ISO 12100:2010, *Introduction*.