

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Managing risk in projects – Application guidelines

Gestion des risques liés à un projet – Lignes directrices pour l'application



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CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 Managing risks in projects	9
5 Principles	11
6 Project risk management framework.....	12
6.1 General.....	12
6.2 Leadership and commitment	13
6.3 Design of the framework for managing project risk.....	14
6.3.1 Understanding the project and its context	14
6.3.2 Establishing the project risk management policy	14
6.3.3 Accountability	15
6.3.4 Integration into project management processes	16
6.3.5 Resources	16
6.3.6 Establishing internal project communication and reporting mechanisms.....	16
6.3.7 Establishing external project communication and reporting mechanisms.....	17
6.4 Implementing project risk management	17
6.4.1 Implementing the framework for managing project risk.....	17
6.4.2 Implementing the project risk management process.....	17
6.5 Monitoring and review of the project risk management framework.....	18
6.6 Continual improvement of the project risk management framework	18
7 Project risk management process	18
7.1 General.....	18
7.2 The project risk management plan	19
7.3 Communication and consultation.....	20
7.4 Scope, context and criteria	21
7.4.1 General	21
7.4.2 Defining the scope.....	21
7.4.3 Establishing the external context	21
7.4.4 Establishing the internal context	22
7.4.5 Establishing the context of the project risk management process.....	22
7.4.6 Defining risk criteria.....	23
7.4.7 Key elements.....	23
7.5 Risk assessment.....	24
7.5.1 General	24
7.5.2 Risk identification	24
7.5.3 Risk analysis	25
7.5.4 Risk evaluation	26
7.6 Risk treatment	26
7.6.1 General	26
7.6.2 Selection of risk treatment options	27
7.6.3 Risk treatment plans	28
7.7 Monitoring and review.....	28
7.7.1 General	28

7.7.2	Management meetings.....	29
7.8	Recording and reporting the project risk management process	29
7.8.1	Reporting.....	29
7.8.2	Records and data storage.....	30
7.8.3	The project risk register	30
Annex A (informative)	Examples	32
A.1	General.....	32
A.2	Project risk management process	32
A.2.1	Stakeholder analysis (see 7.3).....	32
A.2.2	External and internal context (see 7.4.3 and 7.4.4)	33
A.2.3	Risk management context (see 7.4.5).....	35
A.2.4	Risk criteria (see 7.4.6)	36
A.2.5	Key elements (see 7.4.7)	37
A.2.6	Risk analysis (see 7.5.3)	38
A.2.7	Risk evaluation (see 7.5.4)	41
A.2.8	Risk treatment (see 7.6)	42
A.2.9	Risk register (see 7.5.2 and 7.8.3).....	42
Bibliography	44
Figure 1	– Relationship between the components of the framework for managing risk, adapted from ISO 31000	13
Figure 2	– Project risk management process, adapted from ISO 31000.....	19
Figure A.1	– Risk management scope for an open pit mine project	36
Figure A.2	– Distribution of cost estimate using simulation (example only).....	41
Table 1	– Typical phases in a project.....	10
Table A.1	– Stakeholders for a government project.....	32
Table A.2	– Stakeholders and objectives for a ship upgrade	33
Table A.3	– Stakeholders and communication needs for a civil engineering project.....	33
Table A.4	– External context for an energy project.....	34
Table A.5	– Internal context for a private sector infrastructure project.....	35
Table A.6	– Example risk management context for a power enhancement project.....	35
Table A.7	– Criteria for a high-technology project	36
Table A.8	– Key elements for a communications system project	37
Table A.9	– Key elements for establishing a new health service organization.....	38
Table A.10	– Example consequence scale	39
Table A.11	– Example likelihood scale	39
Table A.12	– Example of a matrix for determining the level of risk	40
Table A.13	– Example of priorities for attention.....	42
Table A.14	– Example of a treatment options worksheet	42
Table A.15	– Simple risk register structure.....	43
Table A.16	– Example scale for control effectiveness (CE)	43

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**Managing risk in projects -
Application guidelines**

FOREWORD

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IEC 62198 has been prepared by IEC technical committee 56: Dependability. It is an International Standard.

This third edition cancels and replaces the second edition, published in 2013, and constitutes a technical revision.

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

- a) now aligned with ISO 31000, *Risk management – Guidelines* and ISO 21502, *Project, programme and portfolio management – Guidance on project management* [1]¹.
- b) the principles and generic guidelines on managing risk in projects have been updated to take into account developments in risk management and leadership, with particular reference to implementing risk management within the broad scope of project management envisaged by ISO 21502, including project-related oversight and direction by the sponsoring organization.

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

Draft	Report on voting
56/2058/FDIS	56/2081/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

¹ Numbers in square brackets refer to the Bibliography.

INTRODUCTION

Every project involves risk. Project risks can be related to the objectives of the project itself or to the objectives of the assets, products or services the project creates. This document provides guidelines for managing risks in a project in a systematic, effective, efficient and consistent way.

Risk management includes the coordinated activities to direct and control an organization with regard to risk. ISO 31000, *Risk management – Guidelines*, describes:

- a) the principles for effective risk management,
- b) the framework that provides the foundations and organizational arrangements for designing, implementing, monitoring, reviewing and continually improving risk management throughout an organization, and
- c) a process for managing risk that can be applied to all types of risk in any organization.

This document shows how those general principles and guidelines apply to managing uncertainty, threats and opportunities in projects. It applies to all kinds of projects and project management processes. When applying this document in conjunction with flexible or agile project management processes, the project's objectives, requirements and specifications are expected to evolve as the project progresses. The application of this document can be adjusted in these circumstances.

This document is relevant to individuals and organizations concerned with any or all phases in the life cycle of projects. It can also be applied to sub-projects and to sets of inter-related projects and programmes.

The application of this document can be tailored to each specific project by taking into consideration factors such as context, objectives and requirements. Therefore, it is not in the scope of this document to impose a certification system for risk management practitioners.

The guidance provided in this document is not intended to override existing industry-specific standards, although the guidance can be helpful in such instances.

1 Scope

This document provides principles and generic guidelines on managing risk in projects. In particular it describes a systematic approach to managing risk in projects based on ISO 31000.

Guidance is provided on the principles for managing risk in projects, the framework and organizational requirements for implementing risk management, and the process for conducting effective risk management.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 31000, *Risk management – Guidelines*

3 Terms and definitions

For the purposes of this document, the following terms or definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

event

occurrence or change of a particular set of circumstances

Note 1 to entry: An event can have one or more occurrences, and can have several causes and several consequences.

Note 2 to entry: An event can also be something that is expected which does not happen, or something that is not expected which does happen.

Note 3 to entry: An event can be a risk source.

[SOURCE: ISO 31000:2018, 3.5]

3.2

opportunity

combination of circumstances expected to be favourable to objectives

Note 1 to entry: An opportunity is a positive situation in which gain is likely and over which one has a fair level of control.

Note 2 to entry: An opportunity to one party may pose a threat to another.

Note 3 to entry: Taking or not taking an opportunity are both sources of risk.

[SOURCE: IEC 31010:2019, 3.2 [2]]