

FINAL  
DRAFT

INTERNATIONAL  
STANDARD

ISO/FDIS  
10006

ISO/TC 176/SC 2

Secretariat: BSI

Voting begins on:  
**2017-09-07**

Voting terminates on:  
**2017-11-02**

---

---

## Quality management — Guidelines for quality management in projects

*Management de la qualité — Lignes directrices pour le management  
de la qualité dans les projets*

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.



Reference number  
ISO/FDIS 10006:2017(E)

© ISO 2017



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

# Contents

Page

<b>Foreword</b> .....	<b>v</b>
<b>Introduction</b> .....	<b>vi</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Quality management systems in projects</b> .....	<b>3</b>
4.1 Context and characteristics of the project.....	3
4.1.1 General.....	3
4.1.2 Organizations.....	4
4.1.3 Phases and processes in projects.....	4
4.1.4 Project management processes.....	4
4.2 Quality management principles.....	5
4.3 Project quality management processes.....	5
4.4 Quality plan for the project.....	5
<b>5 Management responsibility in projects</b> .....	<b>6</b>
5.1 Top management commitment.....	6
5.2 Strategic process.....	6
5.2.1 Application of quality management principles through the strategic process.....	6
5.2.2 Customer focus.....	6
5.2.3 Leadership.....	7
5.2.4 Engagement of people.....	7
5.2.5 Process approach.....	7
5.2.6 Improvement.....	8
5.2.7 Evidence-based decision making.....	8
5.2.8 Relationship management.....	9
5.3 Management reviews and progress evaluations.....	9
5.3.1 Management reviews.....	9
5.3.2 Progress evaluations.....	9
<b>6 Resource management in projects</b> .....	<b>10</b>
6.1 Resource-related processes.....	10
6.1.1 General.....	10
6.1.2 Resource planning.....	11
6.1.3 Resource control.....	11
6.2 Personnel-related processes.....	11
6.2.1 General.....	11
6.2.2 Establishment of the project organizational structure.....	12
6.2.3 Allocation of personnel.....	12
6.2.4 Team development.....	13
<b>7 Product/service realization in projects</b> .....	<b>13</b>
7.1 General.....	13
7.2 Interdependent processes.....	13
7.2.1 General.....	13
7.2.2 Project initiation and project management plan development.....	14
7.2.3 Interaction management.....	15
7.2.4 Change management.....	15
7.2.5 Process and project closure.....	16
7.3 Scope-related processes.....	16
7.3.1 General.....	16
7.3.2 Concept development.....	17
7.3.3 Scope development and control.....	17
7.3.4 Definition of activities.....	17
7.3.5 Control of activities.....	17

7.4	Time-related processes .....	18
7.4.1	General.....	18
7.4.2	Planning of activity dependencies.....	18
7.4.3	Estimation of duration.....	18
7.4.4	Schedule development.....	18
7.4.5	Schedule control.....	19
7.5	Cost-related processes .....	19
7.5.1	General.....	19
7.5.2	Cost estimation.....	20
7.5.3	Budgeting.....	20
7.5.4	Cost control.....	20
7.6	Communication-related processes.....	21
7.6.1	General.....	21
7.6.2	Communication planning.....	21
7.6.3	Information management.....	21
7.6.4	Communication control.....	22
7.7	Risk-related processes.....	22
7.7.1	General.....	22
7.7.2	Risk identification.....	23
7.7.3	Risk assessment.....	23
7.7.4	Risk treatment.....	23
7.7.5	Risk control.....	24
7.8	Procurement processes.....	24
7.8.1	General.....	24
7.8.2	Procurement planning and control.....	24
7.8.3	Documentation of procurement requirements.....	25
7.8.4	External provider management and development.....	25
7.8.5	Contracting.....	25
7.8.6	Contract control.....	25
<b>8</b>	<b>Measurement, analysis and improvement in projects.....</b>	<b>26</b>
8.1	General.....	26
8.2	Measurement and analysis.....	26
8.3	Improvement.....	26
8.3.1	Improvement by the originating organization.....	26
8.3.2	Improvement by the project organization.....	27
	<b>Annex A (informative) Overview of processes for quality management in projects.....</b>	<b>28</b>
	<b>Annex B (informative) Cross reference matrix between this document, ISO 9001:2015 and ISO 21500:2012.....</b>	<b>31</b>
	<b>Bibliography.....</b>	<b>34</b>

This is a free 6 page sample. Access the full version online.

## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 176, *Quality management and quality assurance*, Subcommittee SC 2, *Quality systems*.

This third edition cancels and replaces the second edition (ISO 10006:2003), which has been technically revised to align it with ISO 9000:2015, ISO 9001:2015 and ISO 21500:2012.

## Introduction

This document provides guidelines for quality management in projects. It outlines quality management principles and practices, the implementation of which are important to, and have an impact on, the achievement of quality objectives in projects. It is aligned with ISO 9000:2015 and ISO 9001:2015, and supplements the guidance given in ISO 21500:2012.

The guidelines given in this document are intended for a wide audience. They are applicable to projects which can take many forms, from the small to very large, from simple to complex, from being an individual project to being part of a programme or portfolio of projects. They are intended to be used by people who have experience in managing projects and need to ensure that their organization is applying the practices contained in the quality management and quality management system standards from ISO/TC 176, as well as those who have experience in quality management and are required to interact with project organizations in applying their knowledge and experience to the project. Inevitably, some users will find that material presented in the guidelines is unnecessarily detailed for them; however, other users require the detail.

This document employs the process approach, which incorporates the Plan-Do-Check-Act (PDCA) cycle and “risk based thinking”. The two concepts of “quality management in projects” and “quality management systems in projects” are distinguished as follows:

- quality management in projects includes: quality management systems in projects, management responsibility in projects, resource management in projects, product/service realization in projects, and measurement, analysis and improvement in projects;
- quality management systems in projects includes: project characteristics, quality management principles in projects, project quality management processes and a quality plan for the project.

It is recognized that there are two aspects to the application of quality management in projects: the project processes that are managed within the project management system, and the quality of the project's outputs in the form of products and services. Failure to meet either of these dual aspects can have significant effects on the project's products and services, the project's customer and other interested parties, and the project organization.

NOTE The expression “products/services” is used as an abbreviation for “products and services” throughout the remainder of this document.

These aspects also emphasize that the achievement of quality objectives is a top management responsibility, requiring a commitment to the achievement of quality objectives to be instilled at all levels within the organizations involved in the project; however, each level needs to retain responsibility for its respective processes and products/services.

The creation and maintenance of process and product/service quality in a project requires a systematic approach. This approach needs to be aimed at ensuring that the stated and implied needs of the customer are understood and met, that other interested parties' needs are understood and evaluated, and that the originating organization's quality policy is taken into account for implementation in the management of the project.

This document is designed to be used in the context of the requirements for quality management systems specified in ISO 9001:2015 and the guidance on project management processes provided in ISO 21500. Project management processes are described in ISO 21500.

The structure of this document reflects its design as a supporting standard providing guidance rather than a management system standard. A matrix is presented in [Annex B](#) to provide a cross reference between this document, ISO 9001:2015 and ISO 21500:2012.

This is a free preview. Purchase the entire publication at the link below:

## ISO/FDIS 10006 - PDF

- 
- ⏪ Looking for additional Standards? Visit SAI Global Infostore
  - ⏪ Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
- 

Need to speak with a Customer Service Representative - Contact Us